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MAINTENANCE IMPROVEMENT: AN ANALYSIS APPROACH INCLUDING INFEREN-ETC(U)

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MAINTENANCE IMPROVEMENT: AN ANALYSIS APPROACH INCLUDING INFERENTIAL TECHNIQUES

VOLUME IV

SOFTWARE MANUAL



Approved for public release: distribution unlimited.

Milton Clyman Vito A. Gentile Philip S. Grenetz

15 March 1979

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research into assessing the economic (cost and down-time) impact of			
Potentially Avoidable Maintenance actions for selected Naval aircraft subsystems. Maintenance actions requiring no repair and those resulting			
in induced defects and failure-to-correct were identified. Specific high- driver two-digit Work Unit Codes were analyzed for the F-14A Fire Control,			
S-3A Bombing Navigation, S-3A Landing Gear, and A-7E Bombing Navigation.			

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20. The content of the respective volumes of this report are as follows:

Volume I - Overview

Volume II - Technical Report - includes the research methodology, results, and recommendations. The Interim Feasibility Report is an appendix to Volume II.

Volume III - Detailed Technical Data - includes the computergenerated input information tables and output data tables which form the foundation for the results contained in Volume II.

Volume IV - Software Manual - includes the logic used to develop software for generating the tables in Volume III, user instructions, and a complete listing of programs that were executed to arrive at the tables.

For the respective aircraft studied, only data from squadrons within CNAL were utilized. These results were used to project the cost and downtime impact of Potentially Avoidable Maintenance for the whole fleet of the subsystems studied.

The study made a coarse evaluation of Built-In Test effectiveness for one subsystem. Fault isolation capability regarding Shop Replaceable Assemblies was also assessed.

The study concluded that Potentially Avoidable Maintenance contributes significantly to maintenance costs and aircraft down-time, and recommends actions to identify and control the causes.



VOLUME IV - SOFTWARE MANUAL

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FOREWORD

This Final Report was prepared for the Department of Defense, OASD (MRA&L) by Information Spectrum, Inc., Warminster, PA, under Contract No. MDA903-78-C-0176.

(Contract Period 27 December 1977 through 15 March 1979.)

This report describes work covered during Phase II (17 April 1978 to 15 March 1979 and consists of four volumes:

Volume I - Overview

Volume II - Technical Report

including the Phase I Feasibility Study (27 December 1977 to 7 April 1978) as an Appendix

Volume III - Detailed Supporting Data

Volume IV - Software Manual

The principal contributors to this volume were Mr. Philip S. Grenetz, Senior Systems Analyst and Mr. Vito A. Gentile, Vice President (Computer Systems Department); under the direction of Mr. Milton Clyman, Executive Vice President.

The contractors report number for this volume is W-7958-02 (D).

1.0 INTRODUCTION

This Volume of the Final Report on the Maintenance Improvement Study presents information regarding the computer programs developed to assess the impact of Potentially Avoidable Maintenance. This computer program system was developed to assess the frequency and cost (both monetary cost and down time) of Potentially Avoidable Maintenance of airborne weapon systems. The Potentially Avoidable Maintenance Assessment System (PAMAS) is divided into two main program groups. One group, the merge programs, pre-process data files, which are provided by the San Antonio Data Services Center on magnetic tape with the help of personnel at the Naval Weapons Engineering Support Activity.

The pre-processing involves three basic functions. First, selection of maintenance action records for appropriate Work Unit Codes (WUCs). Second, merging of the information on three different tapes—data tapes for Analytical Maintenance Program Analysis Support (AMPAS) Reports No. PTX-438D, PTX-438E, and PTX-438P. The third function of the merge programs is to provide output disk files sorted according to the requirements of the search programs.

The second group of programs, the search programs, performs the search algorithms which detect the occurrence of various categories of Potentially Avoidable Maintenance and assesses their cost and down-time impact.

The PAMAS programs were coded in the COBOL language and implemented on the IBM 370-115 computer, with a Disk Operating System (DOS). They can be implemented on almost any high-speed computer with a COBOL compiler, one tape drive, three disk drives, and a 198 kiloword core memory capability.

This document is designed to serve as both a programmer's manual and a user's guide. The former by explaining, in detail, the data processing flow of the system and the latter by providing step-by-step instructions for use and formats required for input data. The remaining sections of this Volume are organized as follows:

- 2.0 MERGE PROGRAMS
- 3.0 SEARCH PROGRAMS
- 4.0 DISK FILE INPUT/OUTPUT

APPENDIX - PROGRAM LISTINGS

2.0 MERGE PROGRAMS

The merge programs, described in this section, were designed to generate four indexed sequential disk files for input to search programs PROG3A, PORG3B, and PROG3C.

Basically, each merge program reads three data tapes for one aircraft—one for each AMPAS report. Each aircraft's tapes are sorted in three different ways for input to these programs. The sort sequences are identified by code names, e.g., JBW. The initials used in these code names—J, B, S, and W—stand for the following sort fields:

- J ten-digit Job Control Number (JCN)
- B six-digit Aircraft Bureau Number
- S ten-digit part Serial Number
- W five-digit WUC

The initials are in order—from left to right—of minor to major sort field, e.g., JCN within Bureau Number within WUC.

Two slightly different versions of program MRG2A are utilized for both JB-sorted files and JBW-sorted files. Program MRG2C utilizes as input only those files generated by MRG2B and program MRG2D uses only the output of MRG2C. The file input requirements of the merge programs are indicated in Table 1.

Records are selected from the tape files to eliminate WUCs not relevant to the study. They are also screened to eliminate duplicate records and obviously erroneous data. The selected/merged/sorted records are written to four disk output files—MSTRJB, MSTRJBW, MSTRJSW, AND MSTRJW.

TABLE 1. INPUT FILE REQUIREMENTS

TAPE	438D	438E	438P
MRG2A	JBW	JBW	JBW
MRG2A	JB	JВ	JВ
MRG2B	JSW	JSW	JВ

2.1 Loading Tape Files Onto Disk

Before any of the merge programs can be run on a production basis the tape files must be loaded as sequential disk files which are used as input to the programs. Each tape is labelled with:

- A. VOL1 label
- B. HDR1 label
- C. HDR2 label
- D. TAPE MARK

These are non-standard labels and must be bypassed before loading the file. Using the IBM/DOS Ditto routine the tape can be properly positioned for the load by the command:

FSF, xxx, 1 (xxx=TAPE DRIVE NO.)

This will forward-space the tape, on drive xxx, one file.

An End-Of-File is recognized at the TAPE MARK which appears

immediately before the valid data to be loaded.

The tape specifications are as follows:

TRACKS

DENSITY 800 Bits Per Inch

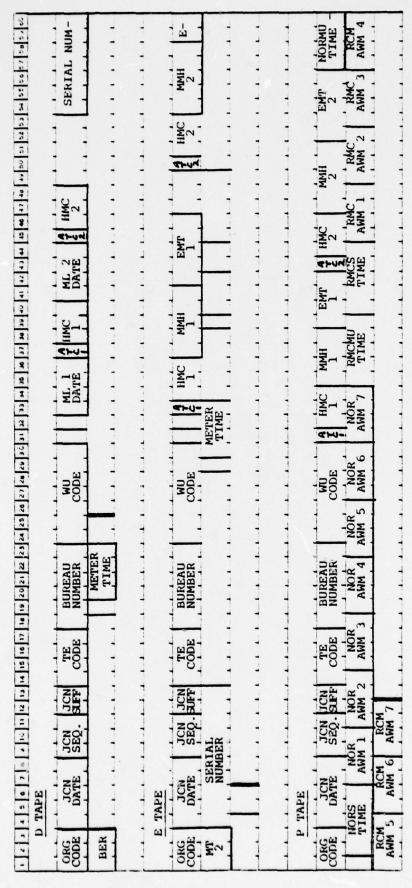
LOGICAL RECORD LENGTH 438D - 85, 438E - 126, 438P - 134

BLOCKING FACTOR (RECORDS) 438D - 141, 438E - 95, 438P - 89

The record layouts of the D, E, and P tapes are provided in Figure 1.

2.2 MRG2A

This program, with interchanging of a few control and program cards, is used to create the JB and the JBW merged files. Merge program 2A reads keypunched cards containing five-digit (external)



Note 1: The underlined fields of D, E, & P Tapes are the fields to be merged.

Note 2: AWM 1, 2, ..., 7 for NOR are summed.

FIGURE 1. AMPAS TAPE RECORD LAYOUT

-

WUCs and a two-digit (subject) WUC. As the cards are read, the two-digit code is stored and a table is set up containing the five-digit WUCs. Since a binary search routine is performed on the five-digit WUC table, these codes must be input in ascending order.

The input card is divided into thirteen six-digit fields with a two-digit filler. Each field is defined as having a five-digit WUC and a space between each pair of codes. Only the first card should have a two-digit WUC followed by four spaces in the first field of the card.

When End-Of-File is encountered on the card reader, the card input file is closed and the three tape files are opened, as well as the disk output file (JB or JBW).

The D-file is read first and is used as the driver for the other two files (E and P). Certain keys from the record are saved (Bureau Number, JCN).

If the first two digits of the WUC on tape are equal to the two-digit WUC saved from card input, then the program bypasses the search of the WUC table. Otherwise, a search of the WUC table is performed, and if no match is found the next D-file record is read in. D-file records are read sequentially until a match in the WUC table is found.

When a D-file record is read and has a valid WUC, then a duplicate record check is performed. If the record that was just read matches the record that was read previously, then both records are printed out and all subsequent records that are duplicates are printed also. Reads are performed until a non-duplicate record is encountered.

After the duplicate record check is passed, then the WUC is checked for spaces. If one or more spaces is found in the WUC, the record is bypassed.

The record is subjected to additional tests in the following order:

- a. JCN-DATE is numeric
- b. JCN-SEQUENCE is numeric
- c. ML1-DATE is numeric
- d. METER-TIME is numeric
- e. ML1-DATE greater than or equal to JCN-DATE
- f. ML2-DATE greater than or equal to ML1-DATE

If the D-file record does not pass all of the above checks, then the record is simply bypassed. Otherwise all D-record information that is needed for the merged record is saved. In addition, if the SERIAL-NO field is a combination of zeros and blanks, it is replaced with a blank field.

At this point, it is assumed that a good D-record is found and passed all of the above checks and certain keys from that record were saved. Next, the E-file is read sequentially and a comparison made between the same keys from the E-record and D-record. If the keys do not match, the next E-record is read in and another comparison is made. E-file sequential reads are done until a match is found or until a record with keys that are greater than the D-record keys is found, If no match is found, but a greater-than situation exists, then processing reverts back to the D-file.

If a match is found, a check is made on the MMH-LEVEL-1 and MMH-LEVEL-2 fields. If they are not numeric, the record is bypassed and processing reverts back to the D-file. Otherwise, all necessary E-record information is saved.

The P-file is processed in the same manner as the E-file, except that the NORMU-TIME, NORS-TIME, and NOR-AWM-TIME fields are tested for non-numeric characters, and only these fields are saved to complete the merged record if the numeric tests are passed. Actually, the seven AWM fields (distributed by Reason Code) are summed to a total NOR-AWM-TIME before saving.

After all three records (D, E, and P) have been selectively saved, they are merged into one record and a decade digit is affixed onto the ML1-DATE and ML2-DATE fields based on the JCN-DATE field. The output record is then written to disk and the entire process is repeated.

2.3 MRG2B

Merge program 2B is similar to MRG2A in that it reads card input in the same manner and merges the D and E tape files. The data checks and adjustments that are made on the D and E files by MRG2B are identical to those made by MRG2A.

The P-file, however, is treated differently. The remaining merge programs (including 2B) result from the fact that a JSW sort is required, but Serial Number is not a field in the records of the P-tape. MRG2B does not merge the P-record with the D and E records. It saves the appropriate fields, writing them to an indexed sequential file called P-TEMP.

The merged D/E file output by MRG2B, called DE-TEMP, is a sequential file. It is JSW-sorted as are the input D and E tape files.

2.4 MRG2C

The purpose of merge program 2C is to merge the temporary output files of MRG2B and create two output files—the final JSW-sorted indexed file and a file which will later become the JW-sorted indexed file.

Before program MRG2C can be run, DE-TEMP must be sorted by JSW. The need for this sort is created by the replacement, by MRG2B, of some Serial Numbers with blank fields, as described for MRG2A. The sort is performed by executing the program called SORT1. The output file is called DE-SORT.

Program 2C sequentially reads records of DE-TEMP and sets up keys from the Bureau Number and JCN fields. These keys are then used to perform a random read of P-TEMP. On an invalid key, the next DE-TEMP record is read. This condition occurs only if a record was eliminated from P-TEMP by a data check in MRG2B, but not from DE-TEMP. If the key is valid, the two records are merged to create two different output records.

One of the output files is the final JSW-sorted indexed file called MSTRJSW. The other file, called JW-TEMP, is the same except that it has JW keys and is a sequential file. JW-TEMP must be sorted to obtain the JW-sorted sequential file and it must have JW keys to then be indexed.

2.5 MRG2D

Before the indexing program can be executed, JW-TEMP must be sorted. The program which performs this sort is called SORT2. Program MRG2D simply copies the sequential file JW-SORT, output by SORT2 to the indexed sequential file MSTRJW.

The figures which follow are data flow diagrams depicting the interplay of data files processed and created by the merge programs.

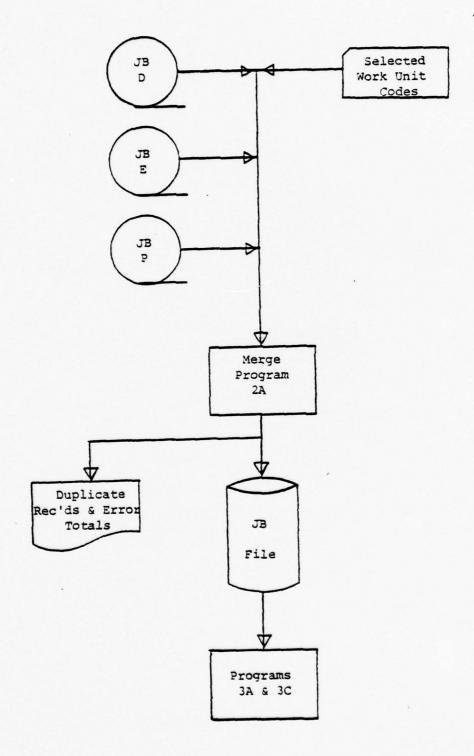


FIGURE 2. MRG2A FOR JB FILES

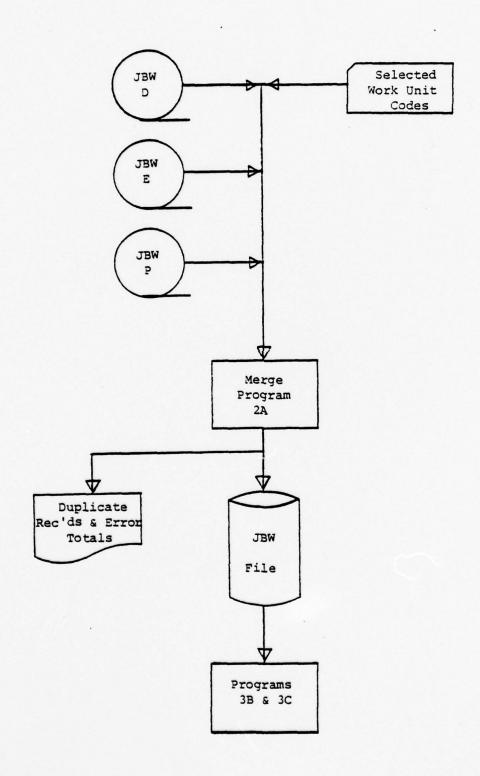


FIGURE 3. MRG2A FOR JBW FILES

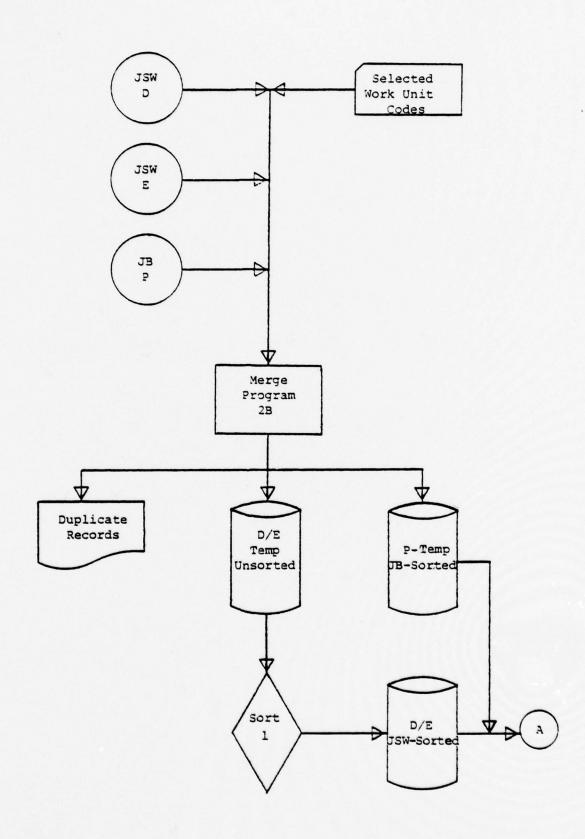


FIGURE 4. MRG2B AND SORT1

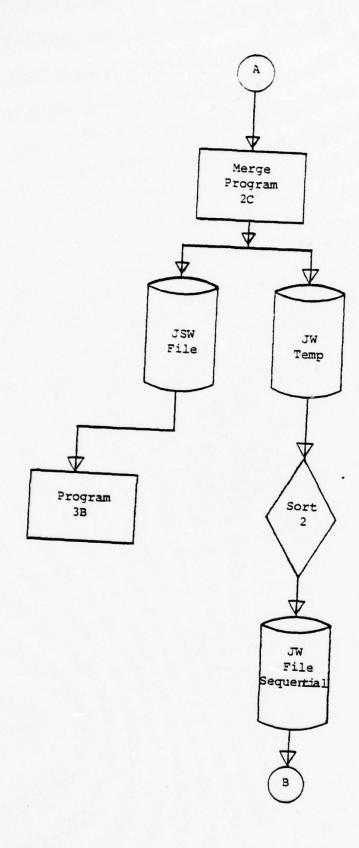


FIGURE 5. MRG2C AND SORT2

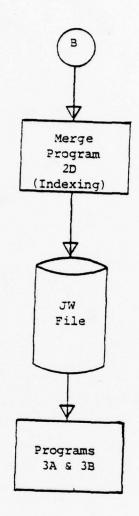


FIGURE 6. INDEXING PROGRAM MRG2D

3.0 SEARCH PROGRAMS

The detection of Potentially Avoidable Maintenance from the data provided by the pre-processing programs is performed by three main programs - PROG3A, PROG3B, and PROG3C - and several subsidiary programs.

3.1 PROG3A

PROG3A identifies and assesses the cost and down-time impact of all No-Repairs-Required actions and some of their costly consequences, including potentially avoidable cannibalizations and access actions on subject WUCs.

3.1.1 Subsidiary Programs

Since access actions are performed on WUCs physically related to the WUC on which the No-Repairs-Required action has occurred (the latter WUC being the causative one), the Physical Relationship Matrix must be used by PROG3A. Thus, before PROG3A can be executed, the program called MATFILE must be run, with the Physical Relationship Matrix as input data and PMATRIX-FILE as the output disk file.

PROG3A uses two files for internal bookkeeping. The files are used to retain the keys of records which have been considered once but, due to the nature of the search procedure, might be reconsidered later, resulting in unwanted double accounting.

In particular, these key lists are used to avoid double accounting of cannibalizations—the T List—and access actions—the 2A List.

These key lists are indexed files used in the direct access mode. They must be initialized as empty lists prior to every execution of PROG3A. The program that performs this initialization is called KEYLIST. The files are called KEYLIST1-FILE and KEYLIST2-FILE.

3.1.2 Input Data Requirements

In addition to the files discussed above, two of the maintenance action history files generated by the pre-processing programs are required. In particular, PROG3A utilizes the files called MSTRJB and MSTRJW.

The card input to MATFILE consists of a set of cards, each one of which represents a row of the matrix to be loaded. The first field, beginning in column 1, is the three-digit row index — the index of the PWUC (physically causative WUC) table or FWUC (functionally causative WUC) table, respectively, for the P Matrix or the F Matrix. All card data input to the PAMAS programs are right-justified within each field.

The second field, beginning in column 5, is a three-digit field representing the quantity of subject WUCs on which the causative WUC may induce Potentially Avoidable Maintenance. This value is limited to a maximum of eighteen per card. The remaining fields, beginning in column 9, are four-digit fields, each of which is the index of a subject WUC.

If there are more than eighteen subject WUCs for a given causative WUC, subsequent cards are to be punched in the same format as the initial card. These subsequent cards will contain

the quantity of subject WUC indices remaining (up to 18) and that number of indices.

The last card in the deck is a trailer card. It contains the last causative WUC index and a "0" in column 7. Because an indexed sequential file is created by MATFILE, the cards must be input in ascending order to causative WUC index. The subject WUC indices need not be in any order on the card.

The card input to PROG3A consists of the SWUC (subject WUC) table, the PWUC table, and a table of O&I (Organizational & Intermediate) labor rates by four-digit SWUC.

The first card of a WUC table deck has one three-digit field, beginning in column 1, representing the quantity of WUCs to be loaded into the table. The remaining cards contain that number of five-digit WUCs, eleven per card (except, perhaps, for the last card). These WUCs are to be punched in five-digit fields, beginning in column 1, with two spaces between each pair of codes. Four-digit codes may be included by punching a "0" as the fifth digit.

Since the WUC tables are subject to binary searches in all of the search programs, the WUCs must be punched in ascending order, where numerals have a greater value than letters.

The labor rate deck's initial card has one three-digit field, beginning in column 1, representing the quantity of four-digit WUCs within the subject two-digit WUC. The remaining cards contain that number of labor rates in cents per hour. These rates are to be punched in ten-digit fields, eight per card, in ascending order of four-digit WUC.

3.2 PROG3B

PROG3B identifies and assesses the cost and down-time impact of Organizational Maintenance's Failure-To-Acknowledge defects, the Failure-To-Correct defects, Induced Defects caused by corrective maintenance on the same item, and Organizational Maintenance's Failure-To-Diagnose failures to the Weapon Replaceable Assembly level.

3.2.1 Subsidiary Programs

Since diagnostic ambiguities, resulting in occurrences of Failure-To-Diagnose, occur among functionally related WUCs (the defective WUC being a causative one), the Functional Relationship Matrix must be used by PROG3B. Thus, before PROG3B can be executed, the program called MATFILE must be run, with the Functional Relationship Matrix as input data and FMATRIX-FILE as the output disk file.

PROG3B uses two keylist files. One file—the 2A List — avoids double accounting of Intermediate-Level No-Repairs-Required actions occurring in the process of diagnosis. The other—the 2BC List —avoids double accounting of Intermediate Level corrective actions. As with PROG3A, these keylist files must be initialized prior to execution of PROG3B, by running the program called KEYLIST.

Another pair of programs must be run prior to executing PROG3B. Since some Intermediate Level No-Repairs-Required result in access actions on physically related subject WUCs, the occurrences

of such pairs of events must be stored by PROG3A for application by PROG3B to diagnostic No-Repairs-Required. This eliminates unnecessary duplication of search effort by the two programs.

PROG3B is designed to quickly determine whether a particular diagnostic No-Repairs-Required resulted in an access action on a subject WUC and, if so, identify the cost and down-time impact and the WUC index to which to assign them. To accomplish this, an indexed file is used by PROG3B in the direct access mode.

The keys must be those of the No-Repairs-Required actions resulting in access actions. Since these actions are not encountered by PROG3A in the order of these keys, the file generated by PROG3A is sequential. It must be sorted by program SORT3 and indexed by program PROG3Al before running PROG3B. The intermediate output file is called S-SORT. The output file of PROG3Al is called IS-FILE.

3.2.2 Checkpoint/Restart

The keylist files are initialized with a dummy record. During the execution of any of the search programs, these files are updated by adding records as required. These update records are not encountered in any particular order and, thus, are not written in the order of their keys.

This lack of order is permitted in the update mode, but it requires the system to implement time- and space-consuming pointer chain procedures to enable access of such records. As one of

these files grows larger, the access time grows longer, until eventually it becomes prohibitive.

This problem was encountered with PROG3B and PROG3C. To minimize it, a periodic reorganization of the keylist files must be performed during execution of the search program. This reordering is accomplished by copying the keylist files to sequential files — called TAPFIL1 and TAPFIL2 — the writing them back to the indexed keylist files. The program that performs this reorganization is called KEYREO.

To allow processing by PROG3B to be discontinued for keylist file reorganization and resumed thereafter, a checkpoint/restart capability was incorporated into PROG3B. When PROG3B is executed, two queries appear on the operator's console. The first query is, "IS THIS A RESTART?" For the first execution of PROG3B, the operator enters, "N" at the console. For subsequent executions he enters, "Y". The display of input data is printed at the end of the initial execution.

The second query to appear on the console is, "HOW MANY RECORDS TO THE NEXT CHECKPOINT?" This refers to the number of records in the main maintenance action history file to be processed before interrupting PROG3B. Processing is discontinued at the next incrementation of the subject WUC index after reaching the desired record count. The operator enters the desired number at the console. It is a five-character field and must be entered with leading zeros.

If all of the records for the subject WUCs have been processed before reaching the next checkpoint, the output tables are displayed on the printer and the program terminates. Otherwise, the output table values accumulated to that point are stored on a sequential disk file called RESTART-FILE, along with the subject WUC index indicating the point at which processing is interrupted. When PROG3B is re-executed, after running KEYREO, RESTART-FILE is accessed to initialize the accumulators and identify the new starting point.

Care must be taken to run program KEYLIST one time, before the initial execution of PROG3B.

3.2.3 Input Data Requirements

In addition to the files discussed above, three of the maintenance action history files generated by the pre-processing programs are required. In particular, PROG3B utilizes the files called MSTRJBW, MSTRJSW, and MSTRJW.

The card input to PROG3B consists of the SWUC table, FWUC table, and tables of average maintenance costs. The format to be used for WUC table input is as described for PROG3A.

The initial card of the average maintenance cost deck contains one three-digit field, beginning in column 1, representing the quantity of four-digit WUCs. Each of the remaining cards contains the maintenance cost factors for one of these WUCs. These cards must be in ascending order of four-digit WUC.

There are six ten-digit fields per card, beginning in column 1. From left to right they represent:

O&I Labor Rate - cents per hour

O&I Material Cost - cents per maintenance action

Depot Labor Cost - cents per depot transfer

Depot Material Cost - cents per depot transfer

Depot Transportation Cost - cents per depot transfer

Attrition Cost (I-Level) - cents per discard

3.3 PROG3C

PROG3C identifies and assesses the cost and down-time impact of three categories of Induced Defect. These include defects induced by corrective maintenance on a physically related WUC and those induced by non-corrective maintenance on the same or physically related WUC.

In addition, the program categorizes all defects reported, via appropriate malfunction codes, as being induced by transportation, handling, or maintenance.

3.3.1 Subsidiary Programs

Since two of the categories of induced defects addressed by program 3C involve physically related WUCs, the Physical Relationship Matrix must be used by this program. Therefore, program MATFILE must be run with the Physical Relationship Matrix prior to the execution of PROG3C. Of course, if PROG3A is executed before PROG3C — it is not necessary to do so — then it won't be necessary to run MATFIL again for PROG3C.

PROG3C uses two keylist files. One file — the PC List — avoids double accounting of defects induced by corrective action on physically related WUCs. The other — the NC List — avoids double accounting of defects induced by non-corrective action on physically related WUCs. As with the other search programs, these keylist files msut be initialized, by running KEYLIST, prior to execution of PROG3C.

3.3.2 Checkpoint/Restart

The need for keylist file reorganization was encountered with PROG3C as it was with PROG3B. The overall execution time, even with checkpoint/restart was found to be enormous. Therefore, to allow its execution unattended over long periods of time (e.g., a weekend), the reorganization program was incorporated into PROG3C as a procedure which is performed periodically.

The interval between reorganizations is determined in a manner similar to that used by PROG3B, except that it is based on a fixed record count between checkpoints, entered once at the beginning of execution by the operator. If necessitated by hardware malfunction or cancellation of the job due to the requirement to run other jobs, the capability also exists to restart from the last checkpoint.

3.3.3 Input Data Requirements

In addition to the files discussed above, two of the maintenance action history files generated by the pre-processing programs are required. In particular, PROG3C utilizes the files called MSTRJB and MSTRJBW.

The card input to PROG3C consists of the SWUC table, PWUC table, and average maintenance cost tables.

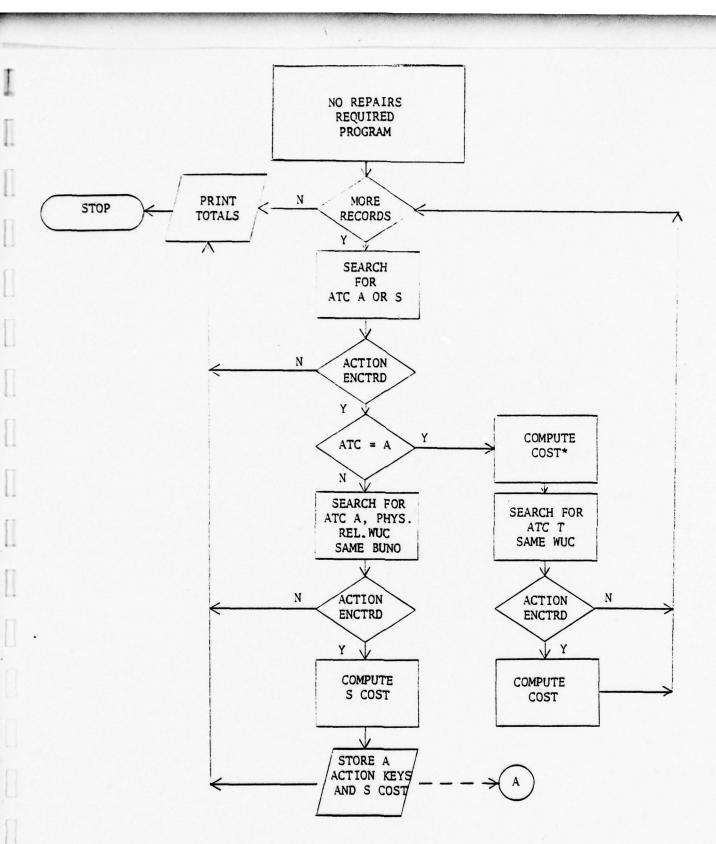
The format to be used for WUC table input is as described for PROG3A. The format to be used for maintenance cost factor input is as described for PROG3B.

The figures which follow are logic diagrams depicting the general flow of search program logic.

3.4 Date Comparisons

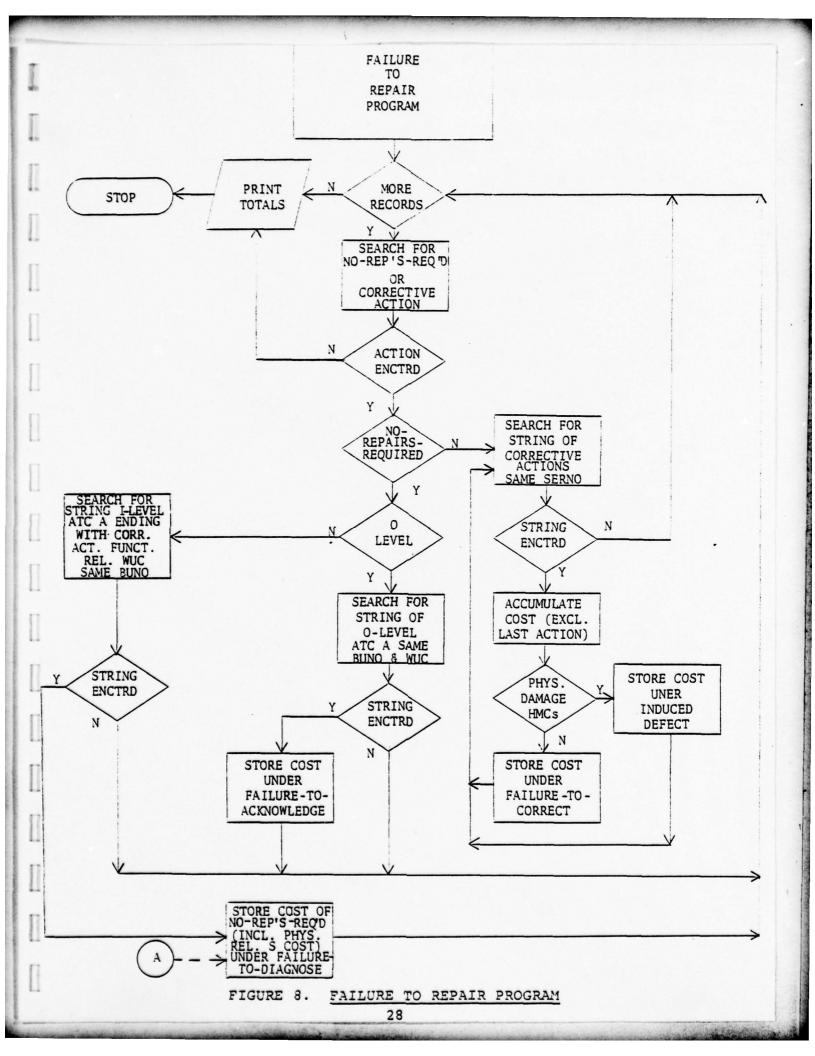
The Maintenance Data Reporting system employs the Julian calendar to indicate maintenance action dates. This facilitates date comparison except around the Julian new year, which does not coincide with the fiscal new year.

In particular, the difference between the Julian dates of the first day of the new year and the previous day, while being chronologically equal to 1, is numerically equal to 635 or 636, depending on whether the previous year was a leap year. Therefore, in programming the time criteria, all date comparisons spanning both Julian years of the fiscal year compensate for this discrepancy. A leap year is identified by being divisible by 4.



*Costs include:

Labor (man-hours & dollars)
Repair material
Replenishment Spares
Transportation
Downtime (NORMU & NORS)



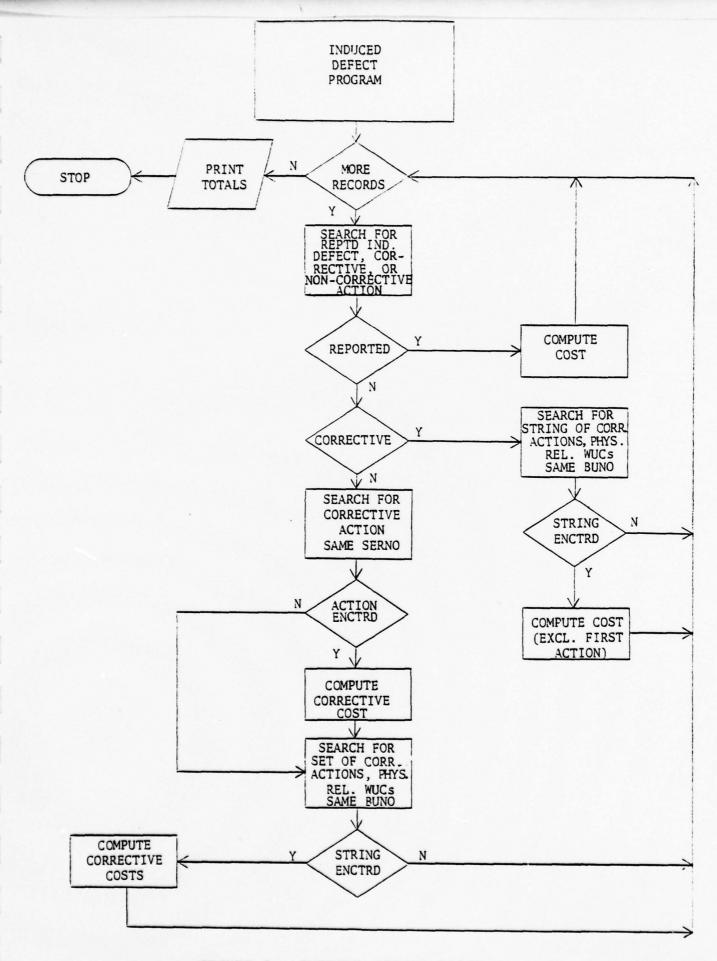


FIGURE 9. INDUCED DEFECT PROGRAM

4.0 DISK FILE INPUT/OUTPUT

There are twenty-seven disk files necessary for the execution of the UMAS programs. Some are indexed, some sequential. The tables presented in this section are intended to identify the essential characteristics of these files. Table 2 provides, at a glance, the names of the files generated and utilized by each of the fifteen programs of the system. Table 3 augments this with quantitative descriptions of these files.

TABLE 2. DISK FILE CREATION/UTILIZATION

PROGRAM NAME	INPUT FILE NAMES	OUTPUT FILE NAMES
MRG2A (JBW)	INPJBWD, INPJBWE, INPJBWP	MSTRJBW
MRG2A (JB)	INPJBD, INPJBE, INPJBP	MSTRJB
MRG2B	INPJBP, INPJSWD, INPJSWE	DE-TEMP, P-TEMP
SORTI	DE-TEMP	DE-SORT
MRG2C	DE-SORT, P-TEMP	MSTRJSW,JW-TEMP
SORT2	JW-TEMP	JW-SORT
MRG2D	JW-SORT	MSTRJW
MATFILE (P)	P MATRIX CARD DECK	PMATRIX-FILE
MATFILE (F)	F MATRIX CARD DECK	FMATRIX-FILE
KEYLIST	NO INPUT FILE	KEYLIST1-FILE KEYLIST2-FILE
PROG3A	MSTRJB, MSTRJW	S-FILE
SORT3	S-FILE	S-SORT
PROG3A1	S-SORT	IS-FILE
PROG3B	MSTRJBW, MSTRJSW, MSTRJW, IS-FILE	NO OUTPUT FILE
KEYREO	KEYLIST1-FILE, KEYLIST2- FILE	KEYLIST1-FILE, KEYLIST2-FILE
PROG3C	MSTRJBW, MSTRJB	NO OUTPUT FILE

TABLE 3. DISK FILE SPECIFICATIONS

FILE NAME	RECORD LENGTH	BLOCKING FACTOR	TRACKS ALLOTTED	OUTPUT FROM PROGRAM	INPUT TO PROGRAMS
INPJBWD	85	90	1200	DITTO	MRG2A
INPJBWE	126	60	2100	DITTO	MRG2A
INPJBWP	134	60	1800	DITTO	MRG2A
INPJBD	85	90	1200	DITTO	MRG2A
INPJBE	126	60	2100	DITTO	MRG2A
INPJBP	134	60	1800	DITTO	MRG2A
INPJSWD	85	90	1200	DITTO	MRG2B
INPJSWE	126	60	2100	DITTO	MRG2B
MSTRJB	112	70	900	MRG2A	PROG3A, PROG3C
MSTRJBW	111	70	900	MRG2A	PROG3B, PROG3C
MSTRJSW	111	60	900	MRG2C	PROG3B
MSTRJW	112	60	900	MRG2D	PROG3A, PROG3B
DE-TEMP	80	90	900	MRG2B	SORTI
P-TEMP	35	150	900	. MRG2B	MRG2C
DE-SORT	80	90	900	SORTI	MRG2C
JW-TEMP	112	60	900	MRG2C	SORT2
JW-SORT	112	60	900	SORT2	MRG2D
PMATRIX-FILE	30.3	1	36	MATFILE	PROG3A, PROG3C
FMATRIX-FILE	303	1	36	MATFILE	PROG3B
S-FILE	42	50	36	PROG3A	SORT3
S-SORT	42	60	36	SORT3	PROG3A1
IS-FILE	42	60	36	PROG3A1	PROG3B

TABLE 3. DISK FILE SPECIFICATIONS (Cont'd)

FILE NAME	RECORD LENGTH	BLOCKING FACTOR	TRACKS ALLOTTED	OUTPUT FROM PROGRAM	INPUT TO PROGRAMS
KEYLIST1- FILE	16	500	492	PROG3A- PROG3C KEYLIST, KEYREO	PROG3A- PROG3C KEYLIST, KEYREO
KEYLIST2- FILE	16	500	492	PROG3A- PROG3C	PROG3A- PROG3C
TAPFIL1	16	500	456	PROG3C, KEYREO	PROG3C KEYREO
TAPFIL2	16	500	456	KEYREO	KEYREO
RESTART- FILE	190	1	120	PROG3B, PROG3C	PROG3B, PROG3C

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SOURCE		THE FOLLOWING RECURDS ARE DUPLICATED PROGRAM ND 2A DATA RECORD	E DUPL ICATED PRO	GRAM NII ZA	DATE 09/29/78
FIRSI		AFWA 1590231112100087136U799	26512178	A51B1 70005	A057217
DIADE	AA277105953	AF WA 1590231112100087136U799	82577011R0017	481011158	M104217
FIPSI	AB216329634	AFWA 159426 1112 10008 6329 F 799 +	2651209981	A518170007	A051816
DIAPE	AB276329634	AFWA 1594 26 1112 10000 6 329 7 799	7021 0604012	94995081	N098676
FIRST	AGR 11723364	AFWA15944174A1A00087243U799 •	8257 TOHROUDS	481015156	M052317
DIAPF	AGRT7223364	AFWA 159441 74A1A0008 7243U 799	8257 MIR 0005	481015156	M052317
FIPSI	AGB 17264364	AFHA 15944174A1A004B7265R290 *	82577ENA0041	481015156	MO 79826
DIAPE	ACA17264364	AFWA 15944174A1AQQMB7265R29Q7267C255B2577ENAQQ41	5582517ENA0041	481015156	MO 79826
FIRST	AC111244152	AFHA1546317441C000B7244T799 . +	8257 IDHR 0052	481042150	M040516
DIAPF	AC 177244152	AFWA 15:16 31 74A1C0008 7244 7799	82577DHR19	481022156	M173316
FIRST	AC111244153	AFWA15863174A1C00087257U799	8257 MPG0003	481022156	M032317
DIAPE	AC177244153	AFWAISA631 14A1C0009 7252U799 +	82577ENA0065	481042150	M128417
15811	AB276276069	AFWA 1590157441C00HB6307RC036319C12782577DHR0027	1278257701180027	481022156	M127726
DIAPF	AB276276069	AFWA 15901574A1C001186307RC03 +	12914055160	80026113	AU40716
IIKSI	AGB 11243245	AFWA15943574A1C00087260U799 .	82577DHR0019	481022158	H241517
DIAPE	ACB11243245	AF WA 1594 3574A1C010B7260U799	82577DHR0019	481022156	H241517
FIRST	AGB 11242383	AFWA 1574 3774 A 1C 00118 0000 000000	000000000000000000000000000000000000000	0000000000000	00000000000
DIAPE	AG111242383	AF WA 1594 3774 A 1 CO 9118 7249RCO 37245C 25582577CL x 0097	15582577GL x0097	481022156	H010426
LIRST	AG117011915	AFWA 159605 F4A 1C 0008 0000 701 7C 2	101 10 29 082511	481022156	31
DI AP E	AC117011915	AFWA 1 59605 74A 1C 0008 701 7R 290	82577ENA0040	481022156	M055926
FIRST	AC111191045	AF WAT 603 87 74 ALC 00W8 0000 000000	000000000000000000000000000000000000000	0000000000000	00000000000
DIAPE	AF171197045	AFWA 16038774A1C 00087199R2907202C255825770HR0018	15582517DHR0018	481022156	H161426
FIRST	AB2 1716 1001	AF WA 1590 15 74 A 1 GOODB 7 167 1 799			- 11
DIAPE	10019111680	AFWA 15901574A16000871671799			
FIRST	AA216358987	AFWA 159425 14A1G000B6363U199 .	82577DHR0048	481031158	F11360H
PLAPF	AA276358987	AF WA 1594 25 744 1 G00086 36 3U 799	82577DHR004	481031160	H096217
FIRST	ACS 11220538	AFWA 1594 30,74A1 GOOHB 7220R 381	82577EWJ0018	481031158	H039126
DIAPE	AGB 772 205 34	AF WA 1594 30 74A1 GOOHB 7220R 381 7221C 381 00624000000	18100624000000	AE 96261E	A061626

	ME CORD AND AND AND AND AND AND AND AND AND AN	IFD PRO	GRAM NO 2A DI	DATE 09/29/78
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22112271180	active of the second of the se	02001112020	201110101	1010617
400 11 5 5 11 3 5 5	44 1990 1990 1941 1441 ST 144		001100101	10.00
AGB 77230126	AFHA 15944274A1GOOHB 7231R374 82577E	82577ENA0017	481031158	MI01926
AGB 11230126	AFWA 159442 7441600118 72 31R 374 + 825776	82577ENA0017	481031150	H101926
AC111008523	AF WA 15944774A1G00000000 7010C38382577		481031158	31
AGB 17008523	AFWA15944774A1G000B7009R242 82577FWJ24	N324	481031158	HO 81226
AE277221388	AFWA 16039074A1G00IIB 7222R9707221C 38182577EWJ26	4326	481031158	M044526
AE211221388	AFWA 1403 90 14A1 GOOIB 7222R9 70 + 82577FWJ26	N326	481031158	H044526
AE211256389	AFWA 160390 74A 1600KB 7257R 900 825770	825770 XP0007	481031158	M133226
AE277256389		144AKU54	8598651001	AU08726
AA211229963	AFWA15902374A11100087230U799 825770	82577DHR00038	481019156	M165217
AA211229963	AFHA15902374A1H00087230U799 + 265120000	000	10139700	A079117
AGB 16282565	AFWA 159450 74A 11100 YB 6 28 2R 242 + 17863C 55115	\$1155	8600100551	915951W
AGR 76282565	AFWA 15945074A11100YB6282R242 825770	825770XP0017	48101019156	N168626
AF217213423	AFWA 16039174A111001187214R2907214C1278257711PG017	11094	481039156	H019426
AE 2 11213423	AFNA 16039174411001187214R290 + 8257711PG017	1100di	481039156	H019426
AC 176280146	AFWA 1586 25 74A 1 K 0 0 0 8 6 2 8 6 U 7 9 9 8 2 5 7 7 E	82577EWJ0020	481081158	MO84717
9510829113V	AFHA 15862574A1K000B6286U7996282C08026512001	100	A51A1010215	A029226
AA217127231A	AFWA 1 59423 74A1K 91 VR0000	00000000	000000000000000000000000000000000000000	000000000
AB211121231A	1 AFWA 15942374A1K90MB0000 7146C29082577		3241509	31
AG176 141 145	AFHA 15943774A1K000863411799 . 825770XP0042	XP0042	481081160	MO88716
46176341345	AFHA 5943774A1KQ00B6341779970564242770452016	910	A51A90273	A015626
AB276288486	AFHA 15958974A 1KOONB6288RC 036288A 79982577 ENAOOO 7	NA0007	481081160	M164326
AB2 16 288486	AFWA 1595 8974 ATKOOHB 628 BERCO3 + 825770	825170XP0015	481011160	H022516
AB277156463	AFWA 1595 8974 A 1 K 0 0 0 R 7 1 5 6 T 7 9 8 2 5 7 7 1	82 5 7 7DHR 0006	481081160	HI 72216
AB217156463	AFHA15958974A1K000871567799 + 8009921500	1500	10101091	A026316
AB271154447	AFWA 1595 9974A11, 0008 71571799 + 86360CSS064	\$3064	1553000000001	H169717
T. 1.131 TT COA				

ACB 771 36 70%	AFWA 59422 74410000B 71 89U799		825770HR0002	481081160	V19661M
AGB 77136 704	AFWA 59422 744 Q000n 71 89U 799	•	82577DIRO002	481081169	M199017
AGB17241316	AF WA 1594 35 74A10000B 7255U 799	•	82577HPG034	481081160	116110H
AGB 11241316	AFHA 15943574A 1Q000B 7255U 799		82577HPG034	461081160	HO1 791 7
A6911255252	AF WA 594 35 74 A Q0000 8 7 255 7 799	•	82577GLY063	481081160	MOB 7916
AGB17255252	AFHA 15943574A 10000B 7255T 799		82577GL Y063	481081160	916780H
AGB 17255253	AFWA 1594 35 74A 100008 7256U 799	•	825770HR0021	481081160	M198417
ACB17755757	AFHA 1594357441000087256U799		825770HR0021	481081160	M198417
AGB 112233 73	AFWA 15944174A1Q000B7256U799		825771PG034	481081160	M018417
AGB11223373	AFWA 15944174A 10000B 7256U 199	•	82517HPG034	481081160	M018417
AGB11254669	AFWA 1596 12 74A 1Q 00BB 7255R 255	•	825770HR0021	481081160	M098326
AG811254669	AFHA 1596 12 74 A 10 008 B 72 55 R 255 7256 A 79 825 7 70 HR 002 1	56A 79	19825770HR0021	481081160	M098326
AF 177214018	AFWA 1603 7974A1Q000B 7214T 799	*	82577GLX0108	48 108 1160	MO 31 216
AE177214018	AFWA 16037974A1Q000B7214T799		82577GL X0108	481081160	M031216
AE117214019	AF HA 1 60 3 79 74 A 1 Q 0 0 0 B 7 2 1 4 U 7 9 9		825771166060	481081160	MO13017
AF 177214019	AF HA 16037974A1Q000B7214U799	•	82577HPG060	481081160	MO13017
AE177220028	AFHA 16037974A 1Q000B 7220R 290	•	82577HPG060	481081160	MO13876
AF177220028	AFWA 1 6037974A 1 0000B 7 2 2 0R 2 9 0 7 2 2 1 C 1 6 9 8 2 5 7 7 HPG 0 6 0	31216	982577HPG060	481081160	H013826
AE177220036	AFWA 60383 74A Q000B 7220 7 799		82577CL X0077	481081160	M062916
AE111220036	AF WA 16038374A10000872201799	•	82577GL X0077	481081160	H062916
AFI 11214023	AF WA 16038574A1Q00HB 7214R2907238C16982577GL X0099	3 9 6 1 6	982577GL X0099	481081160	H039426
AF117214023	AF WA 1 60385 74A 1 Q 0 0 HB 721 4R 290	•	82577GL x0099	481081160	H039426
AF111220034	AFWA 160398 74A 19000B 7220U 799		82577GL X0077	481081160	M062917
AE1 11220014	AFWA 1 603 98 744 1 0000 1 722 0U 199	14	82577GL X0011	481081160	M062917
AF 1 772 1 4097	AF WA L 6.04.0074A1.0000R7214U799	•	825776LX0108	481081160	M030317
AF177214097	AF WA 1604 00 74A1 Q 0 0 0 B 721 4 U 799		82577CL x0108	481081160	M030317
AE177214098	AFWA 60400 74A 1 Q 0 0 0 0 1 2 1 4 1 7 9 9		82577HPG060	481081160	· 910110H

SOURCE		THE FOLLOWING RECORDS ARE DUPLICATED PROGRAM NO 2A DATA RECORD	RE DUPLICATED PRO	IGRAM NO 2A	DATE 09/29/78
FIRST	ACB11264159	AFWA 1 594 38 7441 UDDHB 7265R 290	+ 825770HR0031	481560162	M018317
DIAPE	ACR 11264159	AF WA 1594 38 74A LUODIIB 7265R 2907265C 1278257 7ENADO23	C12782577ENA0023	481039156	M128026
DIAPE	AGB 11264159	AFWA 15943874A1U00HB 7265R290	• 82577ENA0023	481039156	M128026
DIAPF	AGB 77264159	AFWA 1574 3874A 1 UOOHB 7265R 290	• 62577DHR0031	481560162	HO18317
FIRST	ACB 17133657	AFWA 15945774A 1 UOOHB 71 71R 374	• 17863CSS114	8600100557	M076517
DIAPF	ACB 11133651	AF WA I 5945774A1 UDUIIB 71718 3747135C 127825770XP0005	C127825770XP0005	481039156	M152526
FIRST	AF211213136	AFWA 16036274A1U000B72141799	• 825770HR0032	481039156	M140616
DIAPE	AE2 11213136	AF WA 160382 74A 1 U000B 72141 799	82577DHR0032	481039156	H140616
FIRST	AGB 17216389	AFWA 1594417481V00 7263U799	• 825770HR 0023	481083155	H205917
DIAPE	ACB17216389	AFWA1594417481V00 7263U799	8257 TOHR 0023	481083155	M285917
FIRST	AE217221980	AFWA16038074A1W000B 72211 799	82577GL X0080	481083155	H030016
OLAPI	AE211221080	AFWA 16038074A1W000B72211799	+ 82577GLX0090	481083155	M030016
15414	AF211211194	AFWA 160384 7441W000B 721 7R 2907231C 29082577ENA0004	C 290825 17ENA 0004	481083155	M116326
DIAPE	AE271217194	AFNA 16038474A1W00DB7217R290	+ 82577ENADO04	481083155	H116326
ISSI	AE211211451	AI HA 160401 74A 1HOOOB 721 71 799	82577HPG058	481083155	M012916
DIAPE	AF 271217451	AF WA 16040174A1W000R7217T799	• 8257711PG058	481083155	M012916
LIEST	AE211211452	AFWA 16040174A 1W000B 7221U 799	82577GL x80	481083155	M030017
DIAPE	AF277217452	AF HA 1 604 01 74 A 1 WO 0 0 B 7 2 2 1 U 7 9 9	• 82577GL x80	481083155	M030017
FIPSI	46977243306	AFWA 1 59435 74A1 X0008 7249U 799	. 82577ENA0036	481010187	M154017
DEAPF	ACA77243306	AF WA 1 594 35 74A 1 X000B 7249U 799	82577ENA0036	481010187	M154017
FIPSI	AGB 17250320	AFWA 5"435 74A1 X000B 72501 799	8257701140038	481010187	M210716
DIEPE	AGB 17250320	AF WA 1 594 35 74A1 X000B 7250T 799	# 82577DHR0038	481010187	H210716
FIFSI	AG977250341	AFWA 1594 35 744 1 X000B 7256U 799	82577EWA0044	481010187	M126317
DIAPE	AGB11250341	AF WA 1 594 35 74A 1 X000B 72 56U 799	* B2577FWA0044	481010157	H126317
11451	AG176357225	AFWA 5944074A X000B635BT 799	• 94580GDA036	BG1049AB10	M116316
DIAPF	AG116351225	AF WA 15944074A1 X000B6 3581 799	82577ENA0031	481010160	M098716
FIRST	AG911210310	AFWA 5944 744 X000B 7249U 799	8257 JENA 0029	481010187	N115917
DIAPF	AGA11210310	AI WA 159441 7441 X 000B 7249U 799	. 82577ENA 0029	481010187	H115917

SOURCE	i	THE FOLLOWING RECORDS ARE DUPLICATED PRUGRAM NU ZA DALLOWING RECORD THE DATA RECORD THE DESCRIPTION OF THE PROPERTY OF THE PRO	ATED PRO	•	DATE 097.29/78	
FIRST	AGR11242601	AFHA 159454 74A1 X0000 7250R 695 725 7C 2908257 70HR 002 7	DHR 0027	161010187	MI 95626	
O' APE	AGB17242607	AFHA15945474A1X000A7250R695 . 825770	82577DHR0027	481010187	HI95626	
FIRST	AGB11244621	AFWA 15945474A1X000B7249R242727BC290B2577UHR0040	DHR 0040	481010187	M085226	
DIAPE	AGB 77244621	AFWA 15945474A 1 X 0 10 B 1249R 242 . 825770	825770HR0040	181010181	M085226	
FIRST	AB2771173081	71173081AAFHA15960974A1X70WB0000 7182429082577		31960484	31	
DIAPF	AA2 77 11 73081	71173081AAFHA15960974A1X20MB0000 7131129082577		3196050	31	
FIRSI	467770090861	10090861AAFWA15984274A1X50HB 1010R290 + 825772117	2111	3196034	M109526	
DI AP E	198060011194	70199861 AAF WA 159842 74A L X50118 70 LOR290 70 LOC L2 7825 772 LL7	2117	3196034	M109526	
FIRSI	AE1 771 431881	71431881AAFWA15901274A1170VB0000 0000000000000000000	000000000	000000000000000000000000000000000000000	000000000	
DIAPF	AC1771431881	71431881AAFWA15901274A1170WB0000 7159129082577		3322000	31	
FIRST	AGB 77228008	AFWA15901074A11000B7229K242 + 938354	9181545012830005	05	A067216	
DIAPE	ACR17228008	AFWA15901874A11000B7229R242 825770	82577DHR003U	481001155	MI 87726	
FIRST	AC117141268	AFWA 1594 36 74A110000 7143R 383 + 82577E	8257 JEW J0022	481001155	M032026	
DIAPE	46777141268	AFWA 15943674A11000B7143R3B37161C127445B0C5S0090	0600883	BG1049AB10	H290526	
FIRST	46877019862	AFWA15945774A1100HD 7027R123 + 82577D	82577DXP0040	481001155	M110226	
DIAPF	AC817019862	AFWA15945774A1100HD 7027R1237031C169471533194AK022900158647GR	3194AK022	900158647GR	A055026	
FIPST	AE277216987	AFWA 16039674A1100HB 7217R242 + 82577H	825771196018	481001155	M022326	
DIAPE	AF271716987	AF WA 1 643 96 7441 1 00118 721 78 242 722 0C 12 782 57 711PG 018	HPG018	481001155	M022326	
FIRST	AF 271214463	AFWA 16040174A 1100LD 7216R242 82577	8257 7HPG 052	481001155	4014026	
DIAPE	AF277214463	AFWA 1604017441100LD 72168242 . 825771	8257711PG052	481001155	H014026	
FIRST	AF217216494	AFWA 1 604 01 74 A 1 1 00GE 722 0R 29 0 722 0C 12 782 5 7 711PG 05 2	1146052	481001155	M014126	
DIAPF	AF 277216494	AFWA 6040174A 100GE 7220R 290 + 82577	82577HPG052	481001155	H014126	
F1P51	40177165163	AFWA 15902574A1200HB 7175R0707165129082152075	075	0176000201	A065216	
DIAPE	AC177165163	AFWA 59025 74A 200110 71 75R070 . 82152148	148	01 76000201	A065217	
FIRST	AG777026061	AFHA 159433 74A1500HB 7032R3B17041C070B2577GLX0022	GL X 0022	481011160	H023426	
DIAPF	AG117026061	AFMA 1594 3374 A 1 500118 70 328 381 + 70210		AE97236E	A050626	
FIRST	AG111015540	AFWA15944974A1700DB70B1RC01 + 89305C	89305CSS173F	1993033001	A013626	
DIAPE	46111015540	AF WA 15944974A17000B 70B1RC0170B3A799B2577ENA0025	ENA0025	481013155	M062426	

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	SOURCE		THE FOLLOHING RECORDS ARE DUPLICATED PROGRAM NO 2A DATE 09/29/78	DGRAM NO 2A D	ATE 09/29/78	
,	FIPSI	AC 1.7	AFWA 158631 74A4800HB 7252R242 * 82577ENA0054	481031158	M129717	
-	DI APE	AC117742135	AF WA 1586 31 74 A 4 BOOHN 7252R 2427242C 160825770HR0033	481461160	M142326	
	FIRST	AGR 17259323	AF WA 15944174A4B00HB 7264R 2907262C 29082577BXP0005	481451155	M404626	
	DIAPE	AGB 17259323	AF WA 15944174A40001187264R290 + 825770XP0005	481451155	M404626	
	FIRST	AA277264004	AFHA15902474A4E00HB0000 000000000000000000000000000000	000000000000000000000000000000000000000	0000000000	
	DIAPE	AB277264004	AFWA 15902474A4F001100000 7336C29082577	481461160	31	
	FIRST	46277113214	AFWA15942374A4F000B7115T799 + 82577ENA0055	481461160	M071917	
	DIAPE	AB277113214	AFWA 15942374A4E000B71151799 82577011R9	481461160	M110716	
	12411	46A11243246	AFWA 159435 74A4F00HB 7249R242 + 825770HR0006	481461160	M198326	
	DIAPF	AG811243246	AFNA 1594 3574A4E00HB 7249R 242 7244A 799825 770HR0006	481461160	H198326	
	FIRST	AE211216430	AFWA16079174A4E00DB7216R697 + 82577HPG31	481461160	M015226	
	DIAPE	AF 277216430	AF HA 1603 9174A 1 0000 7216R 6977220C 29082577HPG31	481461160	M015226	
	11881	AE 271211381	AFHA1603907444200007217R290 + 2796361X0109	481452150	M060326	
	DIAPE	AE271217381	AFWA 16039074A42000B7217R2907217129027963CLX0109	481452150	92£090H	
	FIRST	AC177242139	AF WA 15862474A4200HB 7242R 2907242C44782577FNA0014	481452150	M292626	
	DIAPE	AC 177242139	AFHA15862474A4200HB7242R290 + 37695FAH219	705471803	A000717	
	FIRST	AC177090135	AFWA15863774442000870811799 * 8257761X0015	481462155	M036416	
	DIAPE	AC177080135	AFHA19863774A42000R 7081T 799 27963E NAS9	481452150	N059516	
	FIRST	AC 177222136	AFWA15900874A42000872371799 + 94580	10041678105	A071117	
	DIAPE	AC177222136	AFWA15900874A42000B7237T799 27963UHR0026	481452150	M294216	
	FIPST	AG111092302	AFWA15945274A4200HB 7093RC01 + 82577GL X0024	481001155	M037517	
	DIAPE	AG117092302	AFWA 15945274A4200HB7093RC017094C70382577DHR0003	481452150	M238326	
	FIRST	AG977914845	AFWA 15945774A4200NB 7014R2427016A799B2577ENA0055	481452150	M128426	
	DIAPE	AG977014845	AFWA15945774442030870148242 . 26055CSST41	352005002	4053926	
	FIRST	AC117222135	AF WA 15959174A4200HR7222R291 + 945800	10041678105	9100E0V	
	DIAPF	AC1 11222135	AFWA 15959174A420011B 7222P 2917222124227963DXP0010	481452150	M108126	
	FIFST	AE211221391	AFHA16039074A42000B7221U799 82577GLX76	481452150	M032817	
	DIAPF	AF 2 17221 191	AFWA 160390744420008 1221U199 . 8257761 X76	481452150	H032817	

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SOURCE		THE FULLOWING RECORDS ARE DUPLICATED PROGRAM NO 2A DATA RECORD	ARE D	UPLICATED PRO	OGRAH ND 2A	DATE 09/29/78	•
FIRST		AFWA 16040174A42000B72171799		82577HPG046	481452150	M015816	
DIAPE	AF211211496	AFWA16040174A42000R72171799	•	82577HPC046	481452150	M015816	
FIRST	AF 271217497	AFWA 16040174A42000B 721 7U 799	•	27963GL X0019	481452150	M037417	
DIAPE	AE211211491	AFWA16040174A42000B7217U799		2 196 3GL X00 19	481452150	M037417	
FIRST	AE211221458	AFWA16040174442001187221R290	•	27963GL X19	481452150	H037426	
DIAPE	AF277221458	AFWA 1 604 01 74442 00118 72 21R 290 7222C 6472 796 3GL X 19	226647	21963GLX19	481452150	M037426	
F 1851	AG71716433B	AFWA12943674A45000B7164U799	•	825776LY0085	481031158	M030617	
DIAPE	AC117164338	AFWA 1 294 36 14A4 5000B 71 64U 199		82577ENA0051	481462155	M046617	
FIRST	AR277263096	AF WA 15901374A45000B72631799		82577011R0024	481462155	M075916	
PIAPF	AB211263096	AFWA 15901374A4 5000B 72631 799	•	82577DHR0024	481462155	M165916	
FIRST	AG177164337	AFWA 1 594 36 74A4 5000B 71 64T 799		82577ENA0035	481462155	M143216	
DIAPE	AG777164337	AFWA 1594 36 74 A 4 50008 7164 1799	•	82577011R0032	481031158	M204716	
FIRST	AG777092301	AF WA 159452 74A450011B 7093RC017107C 290825770XP0015	017.290	8257 70 XP 0015	481462155	M067026	
DIAPE	AG117092301	AFWA 15945274A45001187093RC01		82577ENA0040	481001155	MI 34 B16	
FIRST	AC1 7706 7125	AF WA 159600 74 A4 50 008 7068 1799	•	82577HPG030	481462155	M005817	
DIAPE	AC177067125	AFWA 1 5960074A4 5000B 706BT 799		82577DHR0018	481462155	91556UW	
15014	48211241745	AFWA 1596 15 74 A 4 5000 B 7243 1 799		02577DHR0030	481560160	A066116	
DIAPE	AB211241145	AFWA 1596 1574A45000B 72431799	•	82577UXP027	481560160	A066117	
FIRST	AC177223131	AFWA 16038974A4500BB 7270R957		82577DHR0018	481462155	M118426	
DIAPF	ACI 77223131	AFWA16038974A45008B7270R957	•	26512570	212488	4071117	
11451	AE211221 193	AF WA 160390 74A4 5000N 7221U 799	•	82577ENA0044	481462155	A000317	
OT AP E	AE 2 17 2 2 1 3 9 3	AFWA16039074A45000B7221U799		82577FNA0044	481462155	A000317	
Lipsi	AF 211221459	AFWA 1604017444500HE 7221R 2907222C 64782577HPG43	226647	8257711PG43	481462155	M015926	
DIAPE	AE 217221459	AFWA 160401744500HE 7221R290	•	8257711PG43	481462155	926510W	
LIRST	AF 1 1 104 7014	AF WA 159016 74 A 4 BOUNB 70 4 7R 703		2 7963 DHR 0010	481451155	MI 79926	
DIAPE	AC 177047014	AFWA 159016 74A4 800118 0000 70	1013124282511	82511	481451155		
FIRST	AC116344953	AFWA 159594 74A4B00HB6344R 705634BA 79927963EHJ0049	48A 199	27963ENJ0049	481451155	M041626	
DI APE	AC1 76344953	AF WA 1 59594 74 A 4 800HB 6 344R 705	•	13499CRE 34	5222029003	A029426	

SOURCE		THE FOLLOWING RECURDS	TA RECO	PLICATED PRO	GRAM NO ZA DI	THE FOLLOWING RECORDS ARE DUPLICATED PROGRAM NO 2A DATE 09/29/70 . DATA RECORD
FIRST	AG117137386	AFWA 159606 74 A4 800080000	0000000	00000000000000	000000000000000000000000000000000000000	000000000
DIAPE	AC177137386	AF WA 59606 7444 8000F 7137RC03		82577DHR0039	481451155	M141526
FIRST	AF111222024	AFWA 16038374A48000872227799		2 796 311PC001	481451155	MU59416
DIAPE	AE 111222024	AFHA16038374A48000872221799	2	2 796 31115 600 1	481451155	915650H
FIRST	AF 111220025	AFHA 604 00 14A4 800118 1222K 290 1221C 602 1963DHK0025	2101602	1963DHR0025	481451155	M306526
DIAPE	AF 1112 20025	AFMA 1 604 00 74 A 4 800118 72228 290	• 2	2 796 30119 002 5	481451155	M306526
F1851	AC177139178	AFWA 159011 74A5M000B 7250T 799		825770HR0028	481541166	H134316
DIAPE	AC 177139178	AFWA 15:0011 74A5M0008 72507 799	•	90 1694 16	3706699101	A064117
FIRST	A82 771 90065	AFWA 15901574A5H000R 7190T 799		825770HP0041	481541166	M154116
DIAPF	A6211190065	AFHA 1590 15 74A 5MO00B 71 90F 799		825110xP0024	481462155	H112016
FIRST	AC877241314	AF WA 1594 35 74A 5MOOHB 7249R 242		825770HR0018	481541166	M092626
DIAPE	AGB71241314	AF WA 59435 74A5MOOIIB 7249R 2427250C 583825770IIF 0018	500 5838	257701190018	481541166	H092626
FIRST	AG171236202	AFWA 159436 14A5H000B 12501 799	•	91424F XP 00836	BKF63AV2	M242617
DIAPE	ACT 112 36202	AFWA 1594 36 74A5H000B 7250f 799	.0	825770HP 0011	481541166	H266116
FIRST	AGB77241321	AF HA 159441 74A5HOOIIB 7249R2427243C2B2B2577DIIROO15	4302828	257701180015	481541166	M205926
DIAPE	AGB71241321	AFHA 159441 74A5MODIIB 7249R242	. 8	825770HR 0015	481541166	M205926
FIRST	46811242260	AF WA 15944274A5M000B7256U799	•	82577ENA0039	481541166	M136017
MAPE	AG877242260	AFHA 15944274A5H000B7256U799	8	82577FNA0039	481541166	M136017
FIRST	AG111228016	AF HA 1595 96 74 A 5 M 0 N 0 B 7 2 2 B 1 7 9 9	*	94580CSS0072	BG1049AB09	MO 78217
DIAPF	AG111228016	AFHA 159596 74A 5H000B 722BT 799	. 8	82577EWJ0014	991155185	916950
FIRST	AF211210224	AF HA 1 69386 74A 5M000R 7280U 799	.0	82577HPG019	401541166	M018917
DI AP F	A£ 211210224	AF WA 1 60386 74A 5H000B 7280U 799	.6	94580HUR019	JG1073AB01	A011817
FIPST	AGB 7 1229449	AF WA 594444 74A5M00YB 7229R3 74		702100550013	94931251	M120226
DIAPE	AGB 112 29449	AFWA 594444 74A 5MOOYB 7229R 374	8.	42517DHR0020	991175187	M138626
FIRST	AB211119485	AF HA 1595 8974 A 51000 B 7119T 799	8	825170XP0039	481501155	H137816
DIAPE	A82771119485	AFWA15958974A51000B7119T799	•			11
FIPSI	KA277191963	AFWA 15901974A52000872041799	9	825770HR0010	481505185	M234216
OT AP F	AA217191963	AF HA 15901974A520008 12041799	. 8	846850000	HP11185031	A060117

AB271255699 AFMAIS960714A52000B7262R374 6 83298GLAG48 2181738B A060526 AB271255699 AFWAIS960714A52000B726R374 6 83298GLAG48 2181738B A060526 AR277235699 AFWAIS960774A52000B7213R290 8 82577H0GG64 441505155 H025A2A AR27723332 AFWAIS90247A453000B6294J799 8 82577H0GG64 441505155 H025A2A AR277233243 AFWAIS902474A53000B6294U799 8 82577H0R0022 441540166 H747017 AGB77243243 AFWAIS94357A54000B7249U799 8 82577FWA002 441540166 H747017 AGB77265293 AFWAIS94357A55400B77249T99 8 82577FWA004 481560166 H181717 AGB77265293 AFWAIS94357A55400B7726X1799 8 82577FWA004 481560160 A056526 AGB77265293 AFWAIS9437A55400B7726X1799 8 82577EWA004 481560160 A065526 AGB77265293 AFWAIS94417A55400B7726X1799 8 82577EWA004 481560160 A065526 AGB77265293 AFWAIS94417A55400B7726X1799 8 82577EWA004 481560160 A065526 AGB77266159 AFWAIS9426VA000B72641799 8 82577EWA0004

	THE FOLLOWING RECORDS ARE DUPLICATED PROGRAM NO 2A DATE 09/29/78 DATA RECORD	RECORD	DGRAM ND 2A	DATE 09/29/76	***************************************
AC 1771 36384	36	825770XP0035	481580168	M150676	
AG111136184	AFWA15960674A55000B00Q0 1138C	1130025502577	481580168	31	The state of the s
AF 1 77221048	AFMA 16038374A5500 72217799 +	+ 82577CL x0062	481580168	M043116	
AE111221048	AFWA 16038374A 5500 72211799	82577GLX0062	481580168	4043116	
AE 177221037	AFWA 6938574A55000B7221R957	• 82577DHR0041	481580168	H174026	
46177221037	AFWA 160385 74A55000B 7221P 9577229C 958825770HR0041	C 958825770HR0041	481580168	MI 74026	
AGB11241243	AFHA 159435 74A610000 7249U 799	• 82577ENA0028	151107185	M161711	
AGB 71241243	AFWA15943574A61000B7249U799	82577ENA0028	151109185	M161711	
AG777113309	AFWA 15945274A6 100118 7123RC01	• 825770XP0002	151109185	M121216	
AG777113309	AFWA 15945274461001187123RC017138L16982577FNA0043	L16982577FNA0043	151109185	M088126	
AF217214065	AFWA 160380 74A6 100AB 7216R2907216C	C16982577HPG004	161109185	M038926	
AE211214065	AF WA16038074461004872168290	♦ 82577HPG004	151109185	M038926	
AA216288958	AFWA15902474A62000B62BBT799	• 825770xP0023	481014155	M052816	
AA276288958	AFWA 159024 74A 620008 6288 1 199	82577FNA0001	481610156	911760H	
AG117056058	AFWA15943374A620008 70561799	• 82340RU022	A51K560007	A051917	
AG111056058	AFWA 15943374A6200UR 7056T 199	825770xP0043	481610150	H122416	
AGB 77261327	AF WA 159441 74A 6200118 72617 799	82517ENA0032	481610150	MI52416	
AGB 17261327	AFWA 159441 74A6200118 72611 799	. 82577ENA0032	481610150	H152416	
AG#77261328	AFWA 159441 74A6200 7263U 799	82577DHR 0034	481610150	M206717	
AC811261329	AF WA 159441 7446200 7263U199 .	* 82577DHR0034	481610150	H206717	
46871259207	AFWA 15944274A62000B7264R242	82577ENA0041	481610150	H162426	
ACB 17259207	AFWA 15944274A62000B7264R242	* 82577ENA0041	481610150	H162426	
AG177034592A	AF WA 159453 74A62 30HB 0000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000000	
ACB 11034592A	AFWA 15945374A6230WB0000	7080C28282511	32259351	116	
AGB 77260415	AF WA 159598 74A62008B 7261R2427262A 799825 770HR0019	A 799825 7 70HR0019	48161015	M148126	
ACB 77260415	AFWA15959874A62008B7261R242	• 82577DHR0019	51019185	M148126	
AGB 17250318	AF HA 15943574A74000B 7250T 799	82577DHR0002	481710160	MI21316	
AGA 77250318	AFHA15943574A74000B7250T799	+ 82577DHR0002	481710160	M121316	
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15019	AGB 11250319	AFWA 1594 35 74A 74000B 7256U 799		825770HR0019	091011185	M126117
DIAPE	AG8 77250319	AFWA 1 594 35 74A 74 0000 7256U 799		82577011R0019	481710160	M126117
FIRST	AGB 11256125	AF WA 15943874A74001187258R242	•	825170HP 0025	481710165	H082626
DIAPE	AGB 11256125	AF HA 1594 38 74A 7400118 7258R 242 7257A 799825 77011R 0025	51A19	982517DHR0025	481710165	M082626
11881	AG1163149571	AG 7 16 3 14 95 7 1 F AFWA 15 944 3 74A 74K 9WB 00U	00000	000000000000000000000000000000000000000	00000000000000	0000000000
DIAPE	ACB 763149571	ACB 763149571F AFWA 15944374A74ROWB 709	976 29	1097C 29082577	3201493	31
15011	AG8 17250658	AFWA 15945474A74000B7250R240	•	82577DHR0019	481710160	M125826
DIAPE	ACB 77 250658	AFWA 159454 14A 74000B 7250R 290 7253C 290 B25 77UHR0019	53029	082577UHR0019	481710160	H125826
FIRST	ACI 76337194	AFWA 15960074A7400086357U799	•	02577DXP0023	481710160	H133917
DIAPE	AC176337194	AFHA 59600 74A 7400006 357U 799		825770HR003	481461160	M154216
FIRST	AE211211231	AFUA 160386 74A 74000B 7326R 290	•	265120025	A51H200783	A012017
DIAPE	AF271771731	AF WA 1 603 86 744 740 00 8 7 3 2 6 R 290 7 2 7 2 C 290 8 2 5 7 7 PHG 0 2 0	12029	082577PHG020	481710160	M021226
FIRST	AG877264021	AF WA 1 59604 14P 540000 7264R 290		82577ENA0038	481560162	M100926
DI APE	AGB 11264021	AFWA 59604 74P 540008 7264R290	•	82511ENA0038	481560162	M100926
FIRST	AA211231920	AFWA 15959374R 12000B 7243T 799	•	4967110N174	8553526	A063917
PIAPF	AA2 11231920	AF WA 1 59593 74R 1 2000B 72431 799		21592	A51A1010221	A084116
LINSI	AB277005298	AFNA 15960174R 1200HB 7005R374	•	26512000	A51A1010221	A003426
DIAPE	A8277005298	AFWA 159601 748 1 20018 7005R 374 710244502651 2000	02445	056512000	A51A1010221	A003426
TREE	A82 17005299	AFWA1596157481200 70051799		26512000	A51A1010221	A035616
JAVIO	AB211005299	AFWA1596157481200 70051799	•	26512000	A5 141010221	A035616
HEST	AG111260294	AFWA 159436 74X 1 X 0 0 0 B 17 64 P 199	•	134990GA635	1111388001	A033617
DIAPF	AG111260294	AF WA 1594 3674X 1X000B 7264P 799		9222 0GRU050	69BRI000	C032416
FIPST	AGB71214407	AF WA 159441 74X1 X 000B 7250P 242		92200CSS130	A51A90219	A061526
DIAPE	AG971214407	AFWA 15944174X1X000B7250R242	*	92200CSS130	A51A90219	A061526
FIRST	AC117069175	AFWA 1596 06 74x 1 X 0 0 0 B 7 0 6 9 R 2 9 0	•	24384DCN12035	40234000503	M000116
DIAPE	AC 177069175	AFWA I 59606 74X I XOODB 7069R 290		9222 OGR VUOB	00018869	A0 32726
FIPSE	AC 177124378	AFHA15960674X1X00HB7147A7990000000000000000000000000000000000	00000	000000000000000	00000000000000	0000000000
DIAPE	AG111124318	AFWA 159606 74X 1 X001180000 713	31170	7131170792201	00018869	31

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PROGRAM NO 2A DA	A51A90331	00.3766	963766	1553000000008	155300000008	1553000000008	7553000000008	21920019	155300000008	1553000000008	1553000000008	800000000000000000000000000000000000000	75510000000	155100000018	1551000000018	7551000000018	155100000018	15510000018	75510000018				•	
A RECORD	\$0013161966 •	• 994 79000	994 79000	C 29086360GRV052	+ 86360GDA45	+ 86360CSS0041	86360C550041	44290863600 55149	• 86360HGE021	86360116F021	AC 29086360HIGF 018	010-1011-101-010	• 86360GDA034	• 86360C SS080	86360CSS080	• 86360F SS069	C 29086360C S 5094	C 29086360C 55094	• 86360C\$5094					
THE FOLLOWING RECORDS ARE DUPLICATED POLICATED PRECORD DAIA RECORD	AFMA 504 35 74Y MODOB 726 3U 799	AFWA 15944174Y1M000B 7260U 799	AFWA 15944174Y 1M000B 7260U 799	AFWA 159426 743D1000B6343U7996355C290B6360GRV052	AFWA1594267430100086343U799	AF WA 159441 743010000 72640199		AF WA 159596 74 30 1000B 8025K 95 9 704 9 AF WA 159596 74 30 1000B 8025K 95 8	AFWA 1603837430 10008 72211 799	AFWA 16038374301000872211799	AFWA160398743010088722182907259C2908636WIGF 018	06201003013112312000013113121003141014414	AF WA 15901374 302000863430799	AFWA15901474302000862921799	AFWA 59014 74302000862921799	AFWA 159015 743020008 72291 799	AFWA 15901514302000B 72291 7997223C 29086360C SS094	AF WA 159454 7430200118 7260R 2427263C 29086360C 55094	ĀFWĀ 159454 7430200118 72608242					
	AGA11216253	ACB17201315	AGB 17201315	AB216281254	AB216283254	AGB11206355	AGS 77 206 355	AC177026121	AE177221023	AF171221023	AE177196168	0701061111111	AR2 16283249	AA216292906	AA216292906	AB217190051	AB2 77180051	AGB 11259628	ACS 11259628					
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                                                                                                                                                                                                                                          RE AD - A - CARD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         READ-D-TAPE
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09/28/10

11.35.43

MRG2A

A-30

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NCTR4
1-D-TAPE.
1-D-ML2-DATE-CHK REPLACING ALL SPACES BY ZERD.
1-D-ML2-DATE-CHK REPLACING ALL SPACES BY ZERD.
1-D-ML2-DATE-CHK REPLACING ALL SPACES BY ZERD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            S LESS THAN D-JCN-YR
-JCN-DECADE GIVING JB-MLI -DECADE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AD-D-TAPE.
15 LESS THAN D-ML1-YR
16-ML1-DECADE GIVING JB-ML2-DECADE
                                                                                                                                                                                                                                                                    LLVING ALL SPACES
                            DE Z INTO INDAZA GIVENGE "CNORZ)
GET-MULESS THAN MU-CUGE (TNORZ)
ARI-SEARCH.
INDRES TO INDAI.
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VE D-HLI-DAY TO JB-HLI-YR.

VE D-HLI-DAY TO JB-HLI-DAY.

VE D-HLI-DAY TO JB-HLI-DAY.

10 DC TR6

READ-D-TAPE.

* SPACE OR
                                                                                           ONLY-140-LEFT

1F D-FIVE-DIGIT-WU = WU-CODE (1MDX1) DR

D-FIVE-DIGIT-WU = WU-CODE (1MDX3)

NEXT SENTENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TO JB-ML2-DATE
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READ-0-TAPE.
10 DC TRB
READ-0-TAPE.
READ-0-TAPE.
READ-0-TAPE.
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O NOT NUMERIC
OCTRB
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MOVE D-JCN-DATE
MOVE D-JCN-SEQ
MOVE D-JCN-SUF
                                                                                                                                           DUP-RECORD-CHECK;
11.35.43
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60 70 REA
D-ML2-YR
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 MRG 2A
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REPLACING ALL SPACES BY ZERO. E-HHII NOT NUHERIC E-HHII REPLACING ALL SPACES BY ZERO.

E-HHII NOT NUHERIC E-HHIZ REPLACING ALL SPACES BY ZERO.

E-HHII NOT NUHERIC E-HHIZ NOT SPACES BY ZERO.

GO 10 READ-1 TO ECTRZ E-HHIZ NOT NUHERIC E-HHIZ NOT SPACES.

E-HHIZ NOT SPACES.

GO 10 READ-D-TAPE. SPACES. NG ALL ZEROS. U JB-METER 09/28/18 E-RECORD. ATEN-PRINT TAPE 2000 I-PRINT 2000 AMINE P-NORS-TIME RICHER RICHER NOT NUMERIC TO PCTRI READ-D-IAPE TO PCTRI READ-D-IAPE READ-D-IAPE READ-D-IAPE READ-D-IAPE HAVE E-JCN-DAIE HOVE E-JCN-SEQ HOVE E-JCN-SEQ HOVE E-JCN-SEQ GO TO READ-E-TAPE. 11.35.43 RFAD-E-TAPE - SFQ = 1 - SFQ = 1 - SFQ = 1 - SFQ = 1 - SFGRN = 1 PRUC -P -RECURE MOVE -E-RE IF 4 MRGZA

0

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HOVE P-NORS-TIME TO JB-NORS-TIME.
ADD P-AWN (1) P-AWN (2) P-AWN (3) P-AWN (4) P-AWN (7) P-AWN (7) GIVING JB-AWN-TIME.
GO TO WRITE-DISK-RECORD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NO-MATCH-PRINT.

NO -MATCH-PRINT.

HOVE HORD TO DUPTHOR.

HOVE HORD TO DUPTHOR.

HOVE HORD TO DUPTHOR.

HOVE DATECORD AFTER POSITIONING 2 LINES.

HOVE DATECORD AFTER POSITIONING 1 LINES.

BRITE DUP-RECORD AFTER POSITIONING 1 LINES.

DUP-RECORD-PRINT S LESS THAN 28

IF ON TO PRINT DATA-RECORD.

HOVE SPACES TO DUPTHOR.

HOVE CUP RICORD AFTER POSITIONING 0 LINES.

HOVE CUP RICORD AFTER POSITIONING 1 LINES.

HOVE HOVE HORD TO DUP-RECORD.

HOVE HOVE BRECORD AFTER POSITIONING 1 LINES.

HOVE HOVE AFTER POSITIONING 1 LINES.

HOVE LOUP-RECORD AFTER POSITIONING 1 LINES.
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EAD-0-TAPE.
71 NOT NUMERIC
0 PC 1R3
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WPITE DUP-RECORD AFTER
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SITIONING 1 LINES.
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09/28/18

11.35.43

MRG 2A

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1016.
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17-HOR OF 16
1017 FECORD.
1017 FECORD.
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          MRG 2A
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PROPORTIONAL TAILTHING LOAD ST. HON. 4 STEEL 777777 CCCCCC CCCCCC XXXXXX PICTUR PICTUR PICTUR EDEF NES 3 = 5 5

FOLLOWING RECORDS 09/29/18 PICTURE 15 PIC XIGHI VALUE 16.29.07 - WU-CODES HOR 5 H()0 3 9 duH HOR 2 HOR4 HOP 500 DO MRG 2B 11 F 5 5 5 = = 10

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19. ..... HOW MANY UNBYPAS
                               HDRILL PIC XIGB) VALUE DATA RECORD
TEST-IT
TEST-HSG PICTURE IS XI441 VALUE IS 999.
BECTORD-CIR
TALLY-SAVE
                          TUTALS FOR PROGRÁM NO 2B
                                                                                                                                                                                                                                                                                                                                                                                           CRO-RECORD.
ENO GO TO OPEN-TAPE-FILES.
COUAL TO SPACES
181 E-SETUP.
1611 TO THO-DIGIT-HU.
                                                                                                                                                                                                                                                                                                                                                                                                                                             PEC 0PD-CIR

TALLY-SAVE

SEVEN-DIGIT-WE-TABLE.

SEVEN-DIGIT WE SOON TIMES PICTURE IS X(5).

PEC V-D-PECORD.

RICHIER XXX.
* RECORDS USED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CRD-SUB IS GREATER THAN 13
GD IC READ-A-CARB
GD IC FLVE-DIGIT-TABLE-SETUP.
                 . IN MERCE
                 PIC XIGBI VALUE
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D-WO-CODE
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HP C.718

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READ-D-TAPE CONTRICT OF CECURD AND CONTRICT OF CENTRAL OF CEN
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THIS PAGE IS BEST QUALITY PRACTICABLE FROM COPY PURAISHED TO DDC

16.29.07

MRG28

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H.Z-DATE REPLACING ALL SPACES BY ZERD.
NUMBRIC
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NUMERIC OR
NUMERIC OR
LAPPET COR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DE-KEY UPON SYSLST.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IF INDX4 = 1
                                                                                                                     -D-TAPE
S LESS INAN D-MLI-YR
-MLI-DECADE GIVING DE-ML2-DECADE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SPACES TO P-RECORD, P-ALONE.
ECORD AT END GO TO CLOSE-DUI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   700-СИЕСК-Р.
-- WD-CODES TO TNOX3.
-- WD-CODES THAN WU-CODE 111
APESS THAN 0-JCN-DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPITE-DE MERGED-DE INVALID KEY WRITE MENGED-DE INVALID KEY GO TU MERAD-D-TAPE.

READ-P-TAPE MOVE SPACES IN P-RECORD, READ P-TAPE RECURD AT END GO TO COMP.
                                                                                                                                                                                                                                                                                                                                                                                             I-PRINI
                                                                                                                                                                                                                                                                                                                                                                                                                                                       HOVE E-
HOVE E-
HOVE E-
HOVE E-
GO 10 RFAD-E-
PROC-E-RECORD.
                                                                                                                                                              16 DE-ML2-DATE
00 PFAD-L
01 PFAD-L
02 PFAD-L
03 PFAD-L
                                                                                                                 60 10 REA
0-M 2-YR
ADU 1 0
                                                                                                       D-ML2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOVE - F-BE
                                                                                                                                                  FISE
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HALTE P-ALONE INVALID KEY
DISPLAY INVALID KEP = PA-KEY UPON SYSLST.
GO ID READ-P-TAPE.
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MOVE HARII TO DUPT-HOR.

WRITE DUP-RECORD AFFER POSITIONING 2 LINES.

MOVE DEFECORD TO DUPT-HOR.

MOVE D-RECORD TO DUPT-HOR.
                                                                                                        INM Y-IMD-LEFT-P

LF P-FIVE-DIGIT-MU = MU-CODE (INDX3)

P-FIVE-DIGIT-MU = MU-CODE (INDX3)

MEXT SENTENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DUP-RECORD-PRINI-

TO BE NO DATE OF CHEN 28

TO BE NO DATE OF OF OFFE

MOVE INDR-MSG TO DUP-HE

MOVE INDR-MSG TO DUP-HE

MOVE TO DATE TO

MRITE DUP-PECÓRO AFTER POSITI
ART-SEARCH-P.
INDX2 TO INDX1.
IN START-SEARCH-P.
                                                                                                                                                                                                                                                                                                        DUP-RECURD-CHECK-P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   P - AUH (2
P - AUH (5
P - AUH (6
P - AUH (6
D - AUH (7
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PRINT-DATA-PECRO.

IF FIRST-ONE
MOVE 1 TO FIRST-ONE
ADD 1 TO PRI-CFR
MOVE SPACES TO DUP-RECOPD
MOVE FIRST TO DUP-RECOPD
MOVE FIRST TO DUP-RECOPD
MOVE TO SELVENT TO DUP-RECOPD
                                                                                                RECCRO TO DUP-RECCORD.
09/29/10
 16.29.01
                                                                                                                     FILE TYPE IS HOVE FILE TYPE IS HOVE FILE TYPE IN HOVE FILE TYPE IS HOVE PRINTE DUP-RECE
                 WRITE DUP - RECOR
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isı. Isı. 09/28/18 OR S-TIME 18.13.26 05 PA-14 05 PA-14 05 PA-14 0-01 SK <u>acoooccooccoocoox</u> I SI MRG 2C PASO 3 = -

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NOM-PA-KEY
09/28/18
   18.13.26
                        READ D-DISK
HOVE
HOVE
HOVE
RFAD PA-DISK
                                                                    CL 05E-00F.
                                                            WRI TE
                       DRIVE-DE.
1 SIMPG2C
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STAKI-RUN.
READ GUIDSK INTO JW-REC
HRITE JW-REC INVALID KEY =
HRITE JW-REC INVALID KEY =
                                                        SYS030-DA-3340-S
EQUENTIAL
5031-DA-3340-I
EQUENTIAL
                                                                                                                                  LABEL RECORD IS STANDARD
RECORDING HODE IS F
RECORD TO HODE IS F
RECORD CONTAINS 60 RECORDS
RECORD CONTAINS 112 CHARACTERS.
                                                                                                                                                                   PIC X(15):
                                                                                                OUTDSK
LABEL RECORD IS STANDARD
LABEL RECORD IS STANDARD
RECORD CONTAINS 60 RECORDS
RECORD CONTAINS 112 CHARACTERS.
MFRGED-RECORD.
OS FILLER
JABEL RECORD IS STANDARD
                                                                                                                                                        01 JW-REY

05 JW-KEY

05 FILLE

MORKING-STORAGE

PROCEDURE DIVISION.

PROCEDURE DIVISION.

OPEN INPUT OUIDSK.

OPEN OUTPUT JW.
                                                                                                                                                                                                                         60 TO START-RUN.
CLOSE DUTDSK.
STOP RUN.
FILE SECTION.
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                           13.34.08 10/18/78
                           NO. 5746-CB1
                                                                                                                                 N TO SYSOO7-UR-1442R-S.
                                                                                                                                                                                                                                                                                                                                                                             PIC XITY VALUE 'PRUGTAB'
                            REL 2.4 + PIF28 PP
                                                                                                                                                                                                                                                                                                                                                                                                                      PIC 4131, VALUE . DN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ESSAGE INVALID WRITE TO THE MATRIX FILE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          PEREFERENCE INPUT-1 PIC X(3).

QIV PEDEFINES INPUT-QIV PIC X(3).

CARD-TABLE OCCURS 18 TIMES.

FLER PALUE PIC Y(3).
                                                                                                             SYSU29-04-3340-1
                                                                                                                                                                                                                                                                                                                                                                                                                                        REDEFINES TEST-VALUE PIC X(3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KEY OF THE INVALID WRITE VALUE
                                                                                                                                                                           FIL VIJO.

PIL VIJO.

PIL VIJO.

KATALUES REDEFINES HATRIX-VALUE

ILX-IAB OCCURS 300 TIMES.

MATRIX-VAL

PIC X.

FEC.
                                                                                                                                                         ILE LABEL RECORDS ARE STANDARD.
                                                                                                                                                                                                                    E LABEL RECORDS ARE OMITTED.
                                                                                                                                                                                                                                        PIC X1132)
                                                                                                                                                                                                                                                     PIC X(36).
                                                                                                                                                                                                                                                                                                                            PIC X181.
PIC X1221.
INES X1221.
PIC X1221.
                                                                                                                                                                                                                                                                  PIC x(39):
                                                                                                                                                                                                                                                                                   PIC X(3):
PIC X(3):
PIC X(45):
PIC X(15):
.
CARD-TABLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              I-VALUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        02 FRR-LINE
03 FILLER
OUTPUT-L
IBM DOS VS COBOL
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A-49
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TO PREVI

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FISHT SALUES

MAITE-RECORD THRU WRITE-END

PROVI TO PREVI

PROVI TO PREVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             READ INPUT-CARD-FILET INTO INPUT-CARD-REC AT END GO TO END-JOB.

EXAMINE TEST-GIY REPLACING ALL SPACES BY ZERO.
                                                               I VALUE SPACE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PERFORM TÖP-NE-READ-IMPUT

MOVE IMPUT-VALUE (CARD-COUNT) TO TEST-VALUE,

EXAMINE TEST-VAL REPLACIONATA

MOVE IN MATRIX-VAL (TEST-VALUE).

GO TO CONT-PROCESS.

ND-JOD

CLOSE IMPUT-CARD-FILE, PRINT-FILE.
                                                                                                                                                                                                                                       F HOVE 'F UN C. I ON A L' TO PR2-HEADI.

IF MAIRIX-TYPE NOID ONT USE CORRECT ENTRY.

GO TO DISPLAY AGAIN.

STARI-WRITE HING-RECURD AFTER POSITIONING OLINES.

MRITE PRINT-RECORD AFTER POSITIONING ILINES.

MRITE PRINT-RECORD AFTER POSITIONING ILINES.
                                       N THE TABLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SSS.
D-COUNT IS GREATER THAN INPUT-QTY
PRINT-RECORD AFTER PUSITIONING 2 LINES
RFORM TOP-OF-PAGE
                                                                                                                                                                      START-HOVES. CUCF, TRINIA TITE TO THE CORD.
HOVE IDRA TO PRZ-HEADZ.
IF MAIRIX-TYPE = P. PRZ-HEADZ.
GO TO START-WRITE
                                                                                      OPEN-FILES.

OPEN-FILES.

OPEN INPUT INPUT-CARO-FILE!

OPEN OUTPUT HATRIX-FILE, PRINT-FILE.

DISPLAY-AGAIN

OBJSPLAY - AGAIN

OPEN ON CONSOLE.

ACCEPT MATRIX-TYPE FROM CONSOLE.
10/18/78
                                                                                                                                                                                                                                                                                                                                                             AFTER POSI,

ANTEREDS INDEX POSI,

ANTERCARO AFTER POSITION

ANTERCARO AFTER POSITION

MOVE SPACES 10 PRINT-RECTOR

START-WRITE-EXIT.

READ-INPUT.

EXAMINE FAIL
                               03 P-LLER
03 P-LLER
03 P-LLER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EXAMINE TEST-QTY REPLACING ACLI

IF INPUT-QTY = ZERO PERFORM WE

EXAMINE TEST-I REPLACING ALL

IF FI-SMI = * ON MOVE INPUT-

MOVE ZERO T

MOVE ZERO T

MOVE ZERO T

MOVE ZERO T
  HAIF ILE
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WRITE MATRIX-FILE-REC INVALID KEY
WRITE MATRIX-FILE-REC INVALID KEY
HOVE TEST-VALUE TO D-11EM
HOVE TEST-VALUE TO D-11EM
HOVE TEST-VALUE TO D-11EM
HOVE TEST-VALUE TO D-11EM
HOVE TEST-VALUE
WRITE PRINT-RECORD FROM ERR-LINE
AFTER POSITIONING 2 LINES
AFTER POSITIONING 2 LINES WRITE-END.
EXIT
EXIT
EXIT
EXIT
EXIT
EXIT
FACE
TOP-OF-PAGE
TOP-OF-P 10/18/78 13.34.08 MATFILE

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OI KEYLISI-REG.

O2 KF YI IST-REG.

O2 KF YI IST-RE Y

FOR XII ST-RE Y

NECORD ARE STANDARD

RECORD CONTAINS 16 CHARACTERS.

OI KF YI IST-RE Y

NOR KI IST-RE Y

WORK LIGE SECTION

TO KEYLIST-KEY

PRINCIPLE OF TO WELLST-KEY

PRINCIPLE OF TO WELLST-KEY

HIVE CREATE-KEY

HIVE CREATE-KEY

HIVE CREATE-KEY

WENTIST-KEY OF NEYLIST-KEY KEYLIST-KEY STANDALID KEY

HIVE KEYLIST-REC? INVALIO KEY DISPLAY INVALID KEY

KEYLIST-KEY UPON SYSIST.

STOP RUN.
                                                                                                                                                                                                                                                                                                 LE ASSIGN TO SYSO31-DA-3340-1

ELS KETOLENTAL

EZ ASSIGN TO SYSO32-DA-3340-1

ELS STONENTIAL

ELS KETOLENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE SECTION.
FOR KEYLIST-FILE LABEL RECORDS ARE STANDARD
FOR KEORDING MODE IS F
RECORD CONTAINS 16 CHARACTERS.
RECORD CONTAINS 16 CHARACTERS.
1 SXRFF. STATE CLIST CAND DIVISION.

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21 AUTION.

22 AUTION.

23 SOURCE. COMPUTER.

24 SOURCE. COMPUTER.

25 SOURCE. COMPUTER.

26 INPUT. COMPUTER.

27 INPUT. COMPUTER.

28 SECTION.

29 FILE-COMPUTER.

20 SECTION.

37 SECTION.

38 FILE-COMPUTER.

38
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-	3 2A-REC-BN 3 2A-REC-BN	
FD 5-F	E LABEL RECORDS ARE STA CONTAINS 50 RECORDS.	
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10	1 JCNKEY. 02 JCNKEY-NUM. 03 JENKEY-DATE.	
	03 JCNKEY-SEQUENCE PIC 9131.	
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10	1 HOLD-TABLE 02 HOLD-BN 02 HOLD-JCN.	
	03 HOLD JCN SEQUENCE PIC 9(3)	
5	02 T-COST-TABLE OCCURS 300 TIMES COMP-3.	
	NEW TANK	
10		
5	1 BUFFER TABLE. 02 BUFFR 1 PIC 9151 O2 BUFFR 3 PIC 9151 O2 BUFFR 3 PIC 9151 PIC 9151 O2 BUFFR 4 PIC 9151 PIC 91	
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AD-A068 383 INFORMATION SPECTRUM INC WARMINSTER PA
MAINTENANCE IMPROVEMENT: AN ANALYSIS APPROACH INCLUDING INFEREN-ETC(U)
MAR 79 M CLYMAN, V A GENTILE, P S GRENETZ MDA903-78-C-0176

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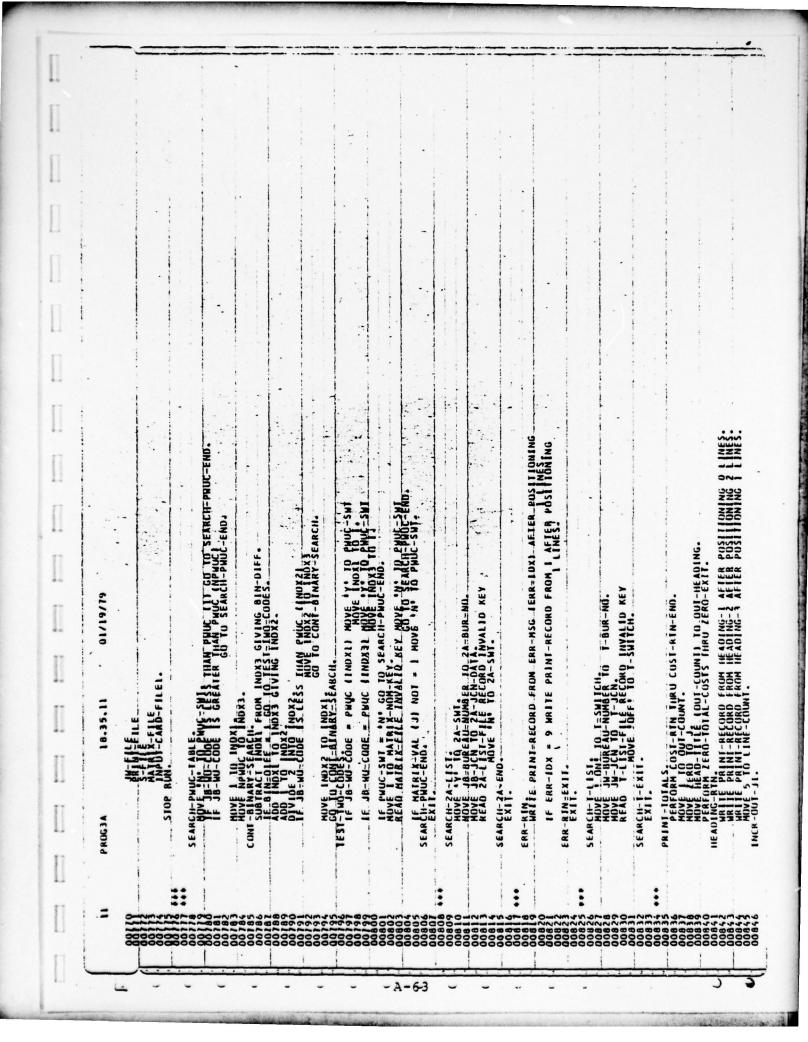
PROG3A 18.35.11 01.	01/16/10
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PRINT-RECORD FROM DET AFTER POSITIONING 1 L	AIC-LINE INES.
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START-RUM.

OF AD SFILIN INTO IS-RECORD

OF AD SFILIN AT END GD TO END-OF-RUM.

WHITE IS-RECORD INVALID KEY DISPLAY INVALID KEY S-FILE = IS-RECORD CONSOLE.
                                                                                                                                                                                                                                                                                                                   SELLIN ASSIGN TO SYS030-DA-3340-S
ACCESS HODE IS SEQUENTIAL
THORS ASSIGN TO SYS031-DA-3340-I
ACCESS HODE IS SEQUENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PIC X142).
LABEL RECORD IS STANDARD
RECORDING MODE IS F
RECORD OF CONTAINS 60 RECORDS
RECORD CONTAINS 42 CHARACTERS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PIC X1161:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PATA DIVISION.

FILE SECTION.

FOR SETTING.

TABLE RECORD IS STANDARD

TABLE RECORDING HODE IS ECORDS

RECORD CONTAINS 60 RECORDS

OF SETTING.

OF SETTING.

FILER RECORD IS STANDARD

OF SETTING.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01 IS-NECORD.
05 IS-NEY
05 ILITER
WORKING-STORAGE SECTION.
PROCEDURE DIVISION.
OPEN INPUT SELLIN.
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03.48.26 10/26/18
KFL 2.4 + PIF28 PP NO. 5146-CB1
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RVE NO ALTERNATE AREAS.

RYCE ASSIGN TO SYSOOF-UR-1203-S.

FI-CARD-FILE ASSIGN TO SYSOOT-UR-142R-S.

ART-FILE ASSIGN TO SYSOOT-UR-1442R-S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TRIX-KEY
NATE AREAS.
SIGN TO SYSDES-DA-3340-I
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C-REC-KEY
IATE AREAS.
GN 10 SYS028-DA-3340-1
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SCIECT INPUT-CARD-FILE ASSIGN TO SYSOOT-UR-14
STIECT IN START-FILE ASSIGN TO SYSOOT-UR-14
STIECT IN START-FILE ASSIGN TO SYSOOT-UR-14
FOR INPUT-TARD-FILE I AREL RECORDS ARE UNITTED.
DI MPUT-TILF-I-REC.
DI HAPIT-TILF-I-REC.
OF JAM-PELCORDS.
OF JAM-PELCORDS.
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                                                                                                                                                                                                                                                                     00-111E ASSIGN TO SYSO30-DA-3340-1
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10 5y5031-0a-3340-1
60UFN/1AL
SW-NOMINAL-KEY
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11 SYSO 32-DA-3340-1
FOUR NITAL
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JAN-MULEAU-NUMBER PIC 3[6].
JEW-JCN-DAIE PIC 9[5].
JAN-JCN-SFQUENCE PIC 9[5].
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N TO SYSOPY-DA-THOOM NOOM INDIAL - KEY
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FULCE-INCR-I.

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GO TO READ-FWUC-VALUES.

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EXAMINE INPUT-CARD-FILE I INTO INPUT-CARD-RECI AT END

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ENN' NEXT SENTENCE ELSE

GO TO LOCA-J.
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HIVE FONCTIONAL HORK UNIT CODES. TO D-TITLE Z.

HIVE FUNCTIONAL HORK UNIT CODES. TO D-TITLE Z.

HIVE FORT I -- TO D-TITLE Z. LINE.

HOVE ALL -- TO D-TITLE Z. LINE.

HOVE SPACES TO DETAIL—LINE.

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HOVE SPACES TO DETAIL—LINE.

HOVE PRINT—RECORD TRUM DETAIL—LINE.

TO D-TITLE I.

HOVE PRINT—RECORD TRUM TO TAIL—LINE.

TO D-TITLE I.

HOVE PRINT—TO T.

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MOVE SPACES TO OFTAIL-LINE
MOVE ALL -- TO D-100A.

MRITE-PRINT-RECORD FROM DETAIL-LINE
MOVE SPACES TO OFTAIL-LINE
MOVE SUB-JECT WUC = 10 D-111LET.

MOVE SUB-JECT WUC = 10 D-111LET.

MOVE SUB-JECT WUC = 10 D-111LET.

MATTER POSTITIONING 3 LINES.

MOVE SPACES TO DETAIL-LINE
MINE TOWCTIONAL MADELLINE
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PERFORM FONCO-PAGE
PERFORM FUNCO-PAGE
MOVE SPACES IN DETAIL-LINE.
MOVE FUNC (1) TO 0-DATA!
WHO FE FUNCO (1) TO 0-DATA!
WHO PERFORM SERING SERING
10/26/18
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MOVE ZERO TO ALAC
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MOVE ZFRO TO AZAG
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ADO 1 TO J. REC. COUNT IS NOT LESS THAN NEXT-CHECK-POINT PERFORM CHECK-POINT THEOLOGY THAN NEXT-CHECK-POINT END THRU CHECK-POINT-END DISPLAY ** RUM ISKEYRED NEXT NEXT ** UPON CONSOLE OF THE J IS GREATER THAN NSWUC PERFORM COST-RIN THRU
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10 LINE COUNT.

1 IS GREATER THAN NEWOC
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NEXT SENTINCE
ELSE GO TO MCOST-PRINT.
START-PROCESS.
MOVE SPACES TO DETAIL-LINE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PERFORM TOP-OF-PAGF.

MCOST-HADDLM
MOVE TAVERAGE MAINTER
MOVE SPACES TO DETAIL-I
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RE AD- JBW. MOVE SAUC(1) TO JOH-MU-CODE.

HOVE BUNDKFY TO JOH-BUNEAU-NUMBER.

HOVE JCHKFY TO JAH-JCN.

STAP! JNH-FILE KEY = JOH-KEY INVALID KEY GO TO INCR-J.

RFAD JOH-FILE AT FND GO TO INCR-J. NW-AIC-LEVEL2 = 'A'
TESI-NEWEJBW-TO-GENERIC.
ON TO MOVE-JBW-TO-GENERIC.
MOVE-JBW-TO-GENERIC. CESSER RECORDS * REC-CNT UPON CONSOL T-REC-COUNT. DT = SHUC (J) GO TO INCR-J. 9 KEY PREP-FOR-JAN.
HOVE SHUC 111 TO GEN-JBW-KEYI-WUC. IEST-AI 10/26/78 END GO TO INCR-J. CHECK-SECOND-TIME.

MOVE JNH-JCN TO JONKEY.

If JNH-ATC-LEVEL! = .C. 60 TO TE

If JNH-ATC-LEVEL! = .R. 60 TO TE

MOVE JNH-ATC-LEVEL! = .R. 60 TO TE

MOVE JNH-ATC-LEVEL! = .R. 60 TO TE

MOVE JNH-ATMI-LEVEL! TO NUFMMI.

MOVE JNH-NORMU-TIME TO NUFMMI.

MOVE JNH-NORMU-TIME TO NUFMMI. 60 10 16 60 10 16 60 10 60 16 60 10 40 AND JAW MYNTEYEL TO BUFHM.
AND JAW MORNOTHE TO BUF HU.
AND JAW MORNOTHE TO BUF M.
AND JAW ANN TIME TO BUFAMM.
GO TO SET MI LOAFE.

SET ARCHEVELL.
If JAW ATC-LEVELL = "R" AND JAB 1-01F.

104-104F.

105-104F.

105 JBW-AIC-1EVEL1 NOT = JBW-AIC-1EVEL2 = 'B' 03.48.26 PROG 3B RE AD-READ-I NC R-IEST St I-IFST 11.51 30 300 292850 4 29860 = = 4351C36 10 20 =

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MILDAT-SFT.

MOVE JAW-MIL-DATE TO MILDAT.

READ-JAW-NET.

READ JAW-NET.

READ JAW-NET.

10 IF JAW-BURFAU-UNDER NOT = BUNDKFY GO TO ADD-TO-CACT.

MOVE MILDAT TO SUB-BURFER-DATE.

MOVE MILDAT TO SUB-BURFER-DATE.

MOVE MILDAT TO SUB-BURFER-DATE.

MOVE JAW-JON-JON-DATE TO SUB-BURFER-DATE.

REALDM DATE-DIFF TO SUB-BURFER-DATE.

REALDM DATE-DIFF TO THAN 3 GO TO ADD-TO-CACT.

IF DAM-ATC-LEVELL = 'O' PERFORM MOVE-JAW-TO-GENERIC

GO TO SET-JCN-KEY

IF JAW-ATC-LEVELL = 'C' GO TO ADD-TO-CACT.

GO TO SET-JCN-KEY

IF JAW-ATC-LEVELL = 'C' GO TO ADD-TO-CACT.

IF JAW-ATC-LEVELL = 'C' GO TO SEARCH-2BC-LIST.

IF JAW-ATC-LEVEL = 'C' GO TO SEARCH-2BC-LIST.

IF JAW-ATC-LEVEL = 'C' GO TO SEARCH-2BC-LIST.

IF JAW-ATC-LEVEL = 'C' GO TO SEARCH-2BC-LIST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADD T TO K. TILLAN NIME GO TO MLIDAT-SET.

1F JAH-IMC-LEVELL = IMC (K) HOVE 1 TO SEJECH.

1F JAH-IMC-LEVELL = IMC (K) HOVE 1 TO SEJECH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TÔK,
15 GREATEP THAN MIMC GO TO CHECK-LEVELL.
18-HMC-LEVELL = HMC (K) GO TO SET-SMITCH2-AGAIN.
15 GRACH-HMC-2.
                                                                                                                                                                                                            HOVE - JBW - 10-GENERIC - 10 HOVE - JBW - 10-CODE - 10 HOVE - JBW - 15-CODE - 10 HOVE - JBW - 15-CODE - 10 GEN - BUREAU - NUMBER - 10 HOVE - 2 HOVE - 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -Air-LEVELL NOT : 'R' GO TO CHECK-SHITCHE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GO TO AND-TO-CACT.

SFAPCH-28G-1 SI.

HOVE JAW-BUREAU-NUMBER TO TEST-28G-8M.

HOVE JAW-STAT TO FEST-28G-JCN.

HEYER JAW-STATE TO TEST-28G-8M.

FEST-28G-8MEGNS THRU SEARCH-END.

FEST-26G-8MEGNS THRU SEARCH-END.

FEST-26G-8MEGNS THRU SEARCH-END.

FEST-26G-8MEGNS THRU SEARCH-END.
                                                                                                                                                        NOT LESS THAN . 1. AND
NOT GREATER THAN . 8.
GO TO MOVE JAW-TO-GENERIC:
10/26/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADD - LO-CACT.
ADD GUNHH TO CACTLJ).
ADD BUT WU TO CHHILJI.
ADD BUT WE TO CSLJJ.
ADD BUT WE TO CSLJJ.
ADD BUT WE TO CAWALJI.
SFT-JCU-KFY.
SET-SMITTLZ NOWEY.
ADD FROM TO SWITCHZ.
ADD FROM TO SWITCHZ.
                                                                                             03.48.26
                                                                                                                                                          JBW-AIC-I EVELS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEARCH-HMC-
                                                                                             PROG3A
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IF GEN-LING.

SFI-JUNG FOR JUNG FOR JUN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TO DAMIL (1).
                                               AND BURHUZ TO RUFAU.
ADD BUFAWR2 TO BUFAWN.
IF GEN-ATC-1 EVELZ NOT = '9' GO TO LOAD-BUFFERZ.
                                                                                                                        165.

TH NOT = SMITCH2 GO TO ADD-TO-C.

TO TO TO TO BUFMIN.

ST TO BUFMIN.
10/26/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADD I TO K.
IF K IS GREATER THAN NIMC GO TO SE
IF GENEHMC-LEVELI" = HMC KN MOVE II
GO TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GO TO ZERO-COUNT.
AND LEVELZ.
AND GN-HMILLEVELZ TO BUF HMILZ.
GN-HMC-Z-FRO TO K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GIN-AIC-IEVELZ NOI LE
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 PRING 38
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IF THE-DIFF IS GREATER THAN ZERO AND TIME-DIFF IS GREATER HAN 50 GIFF IS GITTO END-TEST-JSM-DATE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GO TO SFARCH-DOUBLE-IMC.
GO TO CHECK-SHITCHES.
HEAD-JSH-AGAIN.
19 TO GEN-JSH-KEY-HUC.
STAR! JSH-FILE KEY = GEN-JSH-KEY INVALIO KEY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GO CONT-READ-JSH.

GO CONT-READ-JSH.

CONTRE-DATE

IF JSW-ATC-LEVELZ = 'R' NEXT SENTENCE

L SW-ATC-LEVELZ = 'R' GO TO CHECK-28G-LIST.

IF JSW-ATC-LEVELZ = 'C' GO TO CHECK-2BG-LIST.

IF JSW-ATC-LEVELZ = 'C' GO TO CHECK-2BG-LIST.

AND TO CHECK-2BG-LIST.

AND TO CHECK-2BG-LIST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IF K 15 GREATER THAN NINC GO TO END-DOUBLE-HHC.

IF GEN-IMC-LEVEL1 = IMC (K) MOVE 1 TO SULTCHE

GO 10 END-DOUBLE-IHC.

IF GEN-IMC-LEVEL2 = IMC (K) MOVE 10 SULTCHE

GO 10 END-DOUBLE-HHC.
                                                                                                                                                                                                                                                                                                                                                               MOVE JSW-10-GENERIC TO GEN-WUC.

MOVE JSW-10-GENERIC TO GEN-WUC.

MOVE JSW-16-CODE TO GEN-TF-CODE.

MOVE JSW-16-CODE TO GEN-SERIAL-NUMBER.

MOVE JSW-16-COME TO GEN-SERIAL-NUMBER.

MOVE JSW-16-COME TO GEN-SERIAL-NUMBER.

MOVE JSW-16-COME TO GEN-SERIAL-NUMBER.

MOVE ZERO TO SWITCH?.
                                                                                                                                                                                                                              | | JSW-ATC-LEVEL2 = '8' GD 50 CD CD CONTINUED STANDARD | JSW-ATC-LEVEL2 NGT LESS THAN '1' AND JSW-ATC-LEVEL2 NGT LESS THAN '1' AND JSW-ATC-LEVEL2 NGT GREATER THAN '9' GD TO CONTINE STANDARD S
10/26/18
PROG38
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HOVE GEN METER-TIME TO MITHE.

HOVE SHUC (1) TO JW-DCDDE.

HOVE SCHOOL JW-CLODE.

HOVE SCHOOL JW-CLOE

HOVE SCHOOL JW-CLOE

HOVE SCHOOL JW-CLOE

READ JW-FILE AT END GO TO ADD-TO-C-TABLE.

REST-JW-DATE.

HOVE JW-JCM-DATE TO SUB-BUFFR-DATE.

HOVE JW-METER-TIME NOT ESS THAN 2 END AND

REST-JW-DATE.

READ SUBJECT HIS NOT GREATER THAN 3 END SUBJECT HISHER SUBJEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HOVE JM-VETTER IN GEN-WUC.

HOVE JM-FETTER IN GEN-WUC.

HOVE JM-FETTER IN GEN-BER IN LANDMBER.

HOVE JM-FETTER IN GEN-SERIAL-NUMBER.

HOVE JM-FETTER IN GEN-GEN-RICE.

HOVE JM-SETSWITCH?

FFST M MUS.

FFST M HOVE THE CONTROL SEARCH-ZA-END.

FFST M HOVE THE CONTROL SEARCH SEARCH.

FFST M HOVE THE CONTROL SEARCH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          UNTO INDXZ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       If SWI-2BC = 'N' BEREGRA HOVE-1SWITCHIZ.

ADD-10-C-1ABK F ADD-15W.

ADD BUFMM TO CAMILJI.

ADD BUFMM TO CAMILJI.

ADD BUFMW TO CAMILJI.

ADD BUFMW TO CAMILJI.

ADD BUFMW TO CAMILJI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HOVE I TO INDXI.

CONT TABUÉR TIMBY SERCII.

CONT TABUÉR TIMBY SERCII.

SONTRECT TIMOST FROM THUX3 GIVING BIN-DIFF.

If BIN-OIFF = 1 GO TO FFST-IADUFR-TWO-CIDES.

AND INDX3 IQ INDXI GIVING INDX2.
10/26/78
03.48.26
  PBOC 3B
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GO TO SET-1:

NOVE ZERO TO 13.

HANDE ZERO TO 13.

FRUC [1] 15 GREATER THAN SHUC (1) GO TO ADD-TO-COUNT.

FRUC [1] 15 GREATER THAN SHUC (NSHUC) GO TO ADD-TO-COUNT.

CONTRACT TO INDXT.

CONTRACT TO INDXT.

ADD TO THOSE TO TEST-THO-CODES.

ADD TO THOSE TO TEST-THO-CODES.

ADD TO THOSE TO TO THOSE TO TO THOSE TO THE THRU SETUC TO TO THOSE TO THOSE TO TO THOSE TO TO THOSE TO THE THRU SETUC TO TO THE THRU SELECTION.

FEST THOSE TO TO THOSE TO THE THRU SETUC TO TO THE THRU SETUC TO TO THE THRU SELECTION.

FEST THOSE TO TO THOSE TO THE THRU SETUC TO THOSE TO THOSE TO THE THRU SELECTION. JBW AIC-1EVELL NOT = 'R' GO TO READ-AGAIN-JBW.
JBW-AIC-1EVELZ = 'G' GO TO END-LATTER-CASE.
JBW-AIC-1EVELZ = 'G' GO TO END-LATTER-CASE.
JBW-AIC-1EVELZ NOT LESS IIIAN '1' AND
JBW-AIC-1EVELZ NOT GREATER FIRM '9'. FRAD JAW-FILE AT END GO TO SFT-1.

If JOW-HU-CODE NOT = FWUC(1) GO TO SET-1.

If JOW-HU-CLEVELT NOT = NOUNDER OD TO SET-1.

If JOW-ATC-LEVELT NOT = NOT GO TO TATTER-CASE.

IF JOW-ATC-LEVELT NOT = NOT GO TO TATTER-CASE.

IF SHIRLI NOT = 1 GO TO SET-1.

IF SHIRLI NOT = 1 GO TO SET-1.

IF JOW-JCN-DATE IS NOT GET-1. GO TO READ-AGAIN-JBW.

LAI FR-CASE.

I SWITCH = ZERO HOVE L TO SWITCH

SWITCH = LAND AND SET-JCHMAX.

IF SWITCH = 1 AND JON-JCH IS LESS THAN JCHMAX HOVE INDX 10 INDX 10 INDX 1 CONT. - ADDIFF. BINARY - SEARCII.

1 SHUC (J) = FHUC [INDX] HOVE INDX 10

1 SHUC (J) = FHUC [INDX] HOVE INDX 10

1 SHUC (J) = FHUC [INDX] HOVE INDX 10

1 SHUC (J) = FHUC [INDX] HOVE INDX 10

10 INDX 10 INDX 10

10 INDX - TO LYDX INARY - SCARCII.

- CODES.

- FWUC (INDXI) HOVE INDXI TO 03.48.26 LATIFP-CASF. PPOG 10 END-00 5 == 3-25 3 80 22 5 5000 2

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UNI-TOUNT:
EY-BERG GO TO READ-JOWZ.
EY-BE IS GREATER THAN JCHMAX-DATE GO TO READ-JOWZ.
RO TO SWITCH.
                                                                                                                                                     THE TABLE COUNTY TO SUN-RUFER DATE.

THE LOATE PROMITE TO SUN-RUFER DATE.

THE LOATE DEFENDATE.

THE LOATE DEFENDATE.

THE LOATE DEFENDATE.

THE LOADER FOR THE THAN 2 GD TO SEARCH-JCNO-7.

THE LOADER FOR THE THAN 2 GD TO SEARCH-JCNO-7.

THE LOADER FOR THE THE THE THE TO SEARCH-JCNO-7.

THE LOADER FOR THE THE TENDATE TO TO SEARCH-JCNO-2.

THE MATRIX FILE TOWN TO MATRIX TO TO SEARCH-JCNO-2.

THE MATRIX SALL HATRIX-TON TO TO TO SEARCH-JCNO-2.
                                                    CH-JCNO-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCOUNTY TO SUB-BUFER-DATEL.
CPCOUNTY TO SUB-BUFER-DATEZ.
FF-R TW THRU DATE-DIFF-END.
NOT GREATER THAN HIN-POS-VALUE AND
NOT LFSS THAN TERU
                                                                                                                                                                                                                                                 JCND-1-NUM.

MOVE JCND-DATE (SAVE-CNUNZ) TO SUB-BUFFER-BATEL.

MOVE JCND-DATF (CDUNZ) TO SUB-BUFFER-DATEZ.

MOVE JCND-DATF (CDUNZ) TO SUB-BUFFER-DATEZ.

MOVE JCND-DATF (CDUNZ) TO SUB-BUFFER DATEZ.

MOVE COLLAR AND TO DATE DATEZ.
                                                                                                               IF JCHOISAVE-COUNZ TO KOUNIZ 11).

SUBJEACT I FROM L

GO TO END-SEARCH-JCHO-1.
10/26/18
03.48.26
PRUG 3B
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FRILKY I TO 11.

MINY E 10 11.

MINY E 25 GO TO SET-FOR-LUDP2.

MINY E 25 GO TO SET-FOR-LUDP2.

MINY E 25 GO TO SET-FOR-LUDP2.

MINY E 25 BUREAU-NUMBFR-2A

MAITE 2A-RECORD INVALID KEY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   POS-VALUE = 99999 GO TO END-SEARCH-JCNO-2.

1 TO JCNO-TAG (REN-COUNT).
                                                                  HOVE COUNT TO REM-COUNT HOVE DATE-OFF TO MIN-POS-VALUE.
                                                                                                                                              REN-COUNT TO KOUNT! (L.).
REN-COUNT TO PCOUNT.
99999 TO MIN-POS-VALUE.
1.0 COUNT TO COUNT GO TO SFARCH-JCND-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #UVE JABULER COUNTY TO FER-10X

#UVE JABULER COUNTY TO AZAM (1J).

2-5FT-1J.

2-5FT-1J.

ADD ABULER COUNTY TO AZAM (1J).

ADD ABULER COUNTY TO AZAM (1J).

ADD ABULER COUNTY TO JABULE COUNTY TO SHOW (1J).

ADD SHOWN (COUNTY TO SHOW (1J).
                                                                                                                                                                                                                                                                            MOVE 10 TO EPR-IDX
WRITE 2A-FILL-STABLE-1.
                                              10/26/18
                                                                                                                                                                                  SEARCH-JENG-ZTHÁN TCOUNT GO TO SEA
SEARCH-JENG-ZTHÁN TCOUNT GO TO SEA
PERFERENT FIX-JEND-FAG THRU FIX-END.
MOVE L 10 LI
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                                                03.48.26
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MARIX-LDX.

(MARRIX-LDX) NOI = 1 GD 10 READ-JBM-UN-LOUP.

(A IE TO SUB-BUFFER-DATE.

(B IR SII) TO SUB-BUFFER-OATE2.

(B F-R IN THRU DATE-DIFF-END.

15 GRAFFER THAN 2 GD TO RFAD-JBM-UNP.

EVELT IN ADMINITY.
                                                                                                                                                                                                                                                       ADD 1 10 13

1F 13 GREATER THAN NSWUC GO TO COMP-MOVE-TO-GEN.

1F 115 GREATER THAN NFWUC GO TO 1 ONP-MOVE-TO-GEN.

1F SWUC [13] = FWUC (T) ADD 1 TO 1 ON-13.

1F SWUC [13] 15 GREATER THAN FWUC TO ADD 1 TO 1 FROM 13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     READ—1884-0N-LOUP.

READ—1884-0N-LOUP.

READ JOHN-FILE AT FND GO TO FNO-READ-JBW-LOOP-

IF JBN-ALC-GLOC NOT = SAUC (1J) GO TO LOOP-ON-1J.

IF JBN-ALC-LEVELL NOT = N. GO TO READ-JBW-LOOP-

IF JBN-ALC-LEVELL NOT = N. GO TO READ-JBW-ON-LOOP-

IF JBN-ALC-LEVELL NOT = N. GO TO READ-JBW-ON-LOOP-

IF ZA-SM = N. GO TO READ-JBW-ON-LOOP-

IF ZA-SM = N. GO TO READ-JBW-ON-LOOP-

IF ZA-SM = N. GO TO READ-JBW-ON-LOOP-

IF ARTH N-VAL HARTN-LOX NOT = L GO TO READ-JBW-ON-LOOP-

NOVE JJ TO MATRIX-LOX NOT = L GO TO READ-JBW-ON-LOOP-

IF ARTH NATION DATE FIRST 1 TO SUB-BUFFR-OATE2.

PERFORM DATE FIRST 1 TO AZAMH (1J).

ADD JBW-HHI-FVEL TO AZAMH (1J).

ADD JBW-HHI-FVEL TO AZAMH (1J).

ADD JBW-HHI-TVEL TO AZAMH (1J).

ADD JBW-HHI-TVEL TO AZAMH (1J).

ADD JBW-HHI-TIME TO AZAMH (1J).

ADD JBW-HHI-TIME TO AZAMH (1J).
                                                                                            HAIRIX-FILE INVALID KEY GO TO END-KEAD-JBW-LONP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOOP-HUYE-TO-GEN.

400F SAUC 1 J. TO GEN-JBW-KEYZ-HUC.

MOVE BUMOKEY TO GEN-JBW-KEYZ-BN.

START JIM-FILE KEY = GEN-JBW-KEYZ INVALIO KEY

START JIM-FILE KEY = GEN-JBW-KEYZ GO TO LOOP-UN-IJ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FIX-JCHO-TAG.
HAVE ZERO TO JCHO-TOX.
HACH ZIX-OND TOX.
ADD TO JCHO-TOX.
If JCHO-TOX IS GEATER THAN ICOUNT GO TO FIX-END.
MING TO THE JCHO-TAG FJCHO-TOX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INPUT-CARD-FILE
03.48.26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JBM-FILE
JAH-FILE
S-FILE
S-FILE
Z-FILE
Z-FIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FETTYF-11F-IN.
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        PP0638
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-COSI-RIN.
400 I D. GREATER FUAN NSWUC GO TO COSI-RIN-END.
IF SWUC-DIGIT4 NOT = PREV-SWUC-DIGIT4 AND 1 TO 1-10X
IF SWUC-DIGIT4 NOT = PREV-SWUC-DIGIT4 NOVE SWUC-DIGIT4.
                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER TO ZA-NOM-BN.
ZA-NOM-JCN.
F INVALIO KFY GO TU SEARCH-ZA-END.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OLVIDE BUFFER-DATEL-YP BY GU TO DATE-DIFF-END.

***ULTIPLY 4 BY INTEGER-YR.

IF INTEGRAY 4 BUFFER-DATEL-YP

IF INTEGRAY 5 SUBLIKACT 634 FROM DATE-DIFF

ELSE SUBLIKACT 635 FROM DATE-DIFF
                                                                                                                                                                                                                                                                                                                    D 2BC-NOM-BN.
TO 2BC-NOM-JCN.
INVALID KEY GO TO SEARCH-FND.
X-VAT HE INVALID KEY GO TO BUCK-K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NG DATE-DIFF.
BUFFR-DATE-YR
G YR-DIFF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IAN ZERO
I TO DATE-DIFF-END.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUBTRACT BUFFER-DATEL-YR FROM BU
                                                                                                                                                                                                                                                                                                                                                                                                                                                              SUBTRACT SUN-BUFFER - DATEL FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      II YR-DILF IS NOT CREATER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MIN HELY O. I BY ASMMII [3].
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10/26/78

03.48.26

PRUG 30

I

1 1200 1

A = 0

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HOVE TOTACT-1 TO D1-ALT.

40VE TOTACH-1 TO 01-AMM.

40VE TOTAU-1 TO 01-AMM.

40VE TOTAM-1 TO 01-AMM.
                                                                                                                                                                                                                                                                                             HM-1.
16 THAN SG PERFORM HEADING-1-RIN.
16 THAN SG PERFORM HEADING-1 LINE 1 AFTER POSITIONING
                                                                                                                                                                                                                                                                                                                                                                                                             POST TONING
POST TONING
POST TONING
POST TONING
POST TONING
                                                                                                                                                                 AFTER POSITIONING
AFTER PUSITIONING
AFTER POSITIONING
                                                                                                                                                                                                                                                                                                                                                                                   H 7 FRO-101AL-COSTS THRU ZERO-END. RTM TH J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       SHUC (JI TO 02-WUC GO TO END-JZ
SHUC (JI TO 02-WUC.
                                                                                                                                                  FPO TO J.
H ZERU-TOTAL -COSTS THRU ZERO-END.
                                                                                                                                                                                                     GO 10 END-31
                                                                                                                                                                                                                                                                                                                                                                                                             HEADING-5
HEADING-5
HEADING-6
HEADING-7
                                                                                                                                                                 INT-RECORD FROM MEADING-1
INT-RECORD FROM MEADING-2
INT-RECORD FROM MEADING-3
O 1 INE-COUNT.
                                                                                                                                                                                                                                                                                                                      INCR-JI.
PRIIC 38
                                                                                                                                                                                                                                                                                                                                                                                                        HF AD
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FROM DETAIL-1 INE-2 AFTER POSITIONING WRITE PRINT-RECORD FROM HEADING-9 AFTER POSITIONING WRITE PRINT-RECORD FROM HEADING-10 AFTER POSITIONING WRITE PRINT-RECORD FROM HEADING-11 AFTER POSITIONING IL LINES. GO TO END- 13. PERFORM ZERO-TOTAL-COSTS THRU ZERO-END.
MINE ZERO TO J.
HEADING-1-RIV.
WRITE PRINT-RECORD FROM HEADING-9 AFTER
WRITE PRINT-RECORD FROM HEADING-10 AFTER 10/26/18 TO LINF-COUNT. IN LINE-COUNT 20 109 20 109 PRINGSIB INCR FND ~ A-94

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MOVE 101AL 10 03-MUC.

MOVE [0] ACT-1 TO 03-ACT.

MOVE [0] ACT-1 TO 03-AMI.

MOVE [0] MIHIL-1 TO 03-MMI.

MOVE [0] S.1 TO 03-NORS.

MOVE [0] C.1 TO 03-LABOR.

MOVE [0] C.2 TO 03-LABOR.

MOVE [0] C.2 TO 03-MATERIAL.

MOVE PRINT-PECCIRD FROM DETAIL-LINE-3 AFTER POSITIONING
                 FIAN 56 PERFURM HEADING-3-RIN.
4 HEADING-3-RIN.
ETAIL-LINE-3 AFTER POSITIONING
                                                                                                                                                                                                                                                                                           ALTER THAN 56 PERFORM HEADING-4-RIN.
PUM DETAIL-LINE-4 AFIER POSTITONING
2 LINES.
                                                                                                            POSTITONING
OLINES
POSTITONING
2 LINES
POSTITONING
I LINES
LINES
                                                                                                                                        WPITE PRINT-RECORD FROM HEADING-15 AFTER
                                                                                              PEKFORM ZERO-TDIAL-COSTS THRU ZERO-END.
HOVE TERD TO J.
HEADING-4 PRIN: PRECORD FROM HEADING-12 AFTER
WRITE PRIN: PRECORD FROM HEADING-12 AFTER
                                                                                                                              WRITE PRINT-RECORD FROM HEADING-14 AFTER
                                                                                                                     WRITE PRINT-PECURD FROM HEADING-13 AFTER
                                                                                                                                                                NEMUE GO TO END 314.
5 10 LINE-COUNT.
                                   GO TO INCR-J3.
                                                                                                                                                                                                                                                                                                          400 2 TO LINE-COUNT
                                                                                                                                                       Z
N
                                              END
                                                                                                                                                                                                                                                                                                                     FND
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03.48.26

PRING 18

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PPINT-RIN-
FAIL.
FRA-RIN.
WRITE PRINT-RECURD FROM ERR-MSG LERR-IDX) AFIER POSITIONING
                                                                                                                                                                                                                                                                                                                            1-15 TOTS-1, TOTAMH-1
01651 TOTOMCST 1015-2.
                                  MOVE TOTATCS! TO D4-TRANSPORT.
MOVE TOTATCS! TO D4-TRANSPORT.
MOVE TOTACS! TO D4-DISCARD.
WRITE PRINT-RECORD FROM DETAIL-LINE-4 AFTER PUSITIONING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTRIT (J) TO ATT-RESTART.
PESTART-PECORD INVALID KEY NEXT SENTENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOVE SAVE-J 10 AL-RESTART-ACT.
WRITE PESTART-RECORD INVALID KEY NEXT SENTENCE.
CLIECK-POINT-END.
EXIT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       S GREATER THAN NSWING GO TO CHECK-PT-J.
                                                                                                                                                                                                                                                                                                      7 FRO-101AL-COSTS.
40VE ZERO TO TOCST-1, TOTMCOST TOTM
1010TCST, TOTMCOST, TOTM
1010TCST, TOTMCOST, TOTM
 10/26/18
                                                                                                                                                                                                                                                                                                                                                                                                                              ID SAVE-J.
10 J.
PDT RESTART-FILE.
                                                                                                                                                             SEARCH-S-FILE
MOVE DUNDENTO S-NOH-DO
HOVE DAN-JON TO S-NOH-JC
HFAD S-FILE INVALID KEY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PESTARIA UPPER RESTARI-FILE MOVE TO J. S. RESTARI-FILE
03.48.26
                                                                                                                                                                                                                                                   S-FILE-END.
                                                                                                                                                                                                                                                                                                                                                                                                                  CHECK-POINT
HOVE J
                                                                                                                                                                                                                                                                                                                                                                              FRO-FNO.
 PRINTS
                                                                                                                            =
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ADD I II JE GEAFER THAN NSWUC GO TO RESTART-J.
GO TO RESTART-INCR-J.
RESTART-J.
RESTART-J.
GO TO RESTART-FILE AT END MOVE IL TO ERR-IDX
GO TO RESTART-READ-END. FURM ERR-RIN THRU ERR-EXIT TO RESTART-READ-END. 10/26/78 HOVE ALPESTARI-ACT T SOFTRACT | FROM J. RESTARI-READ-END. CLOSE RESTARI-FILE. RESTARI-END. 03.48.26 READ RESTART-FILE PRINGSB 3 A-97

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01 IN-RECE.
WORLD, STORAGE SECTION.
77 MINKEYL
77 MINKEYL
78 MINKEYL
78 MINKEYL
79 MINE DIVISION.
78 MINE DIVISION.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PATA DIVISION.
FILE SECTION.
FOR KYLIST-INPLIABEL RECUPOS ARE STANDARD
FOR RECORDING MUDE 15 F
RECORD CONTAINS 50 FECUROS
RECORD CONTAINS 16 CHARACTERS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FCI TEET BECOMOS ARE STANDARO ROCUEDINE IS E STANDARO ECONDING HONE IS E ECONDS ACCURDS FOR ECONDS FOR ECONDS FOR ECONDS FOR EVENTALINS IN CHARACTERS.
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UCZ TANET RECURDS ARE STANDARD FCOMDING MODE 1S F RECURDS
ECCH CONTAINS SOU RECURDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RICG.
STARFYCTOPDS ARE STANDARD
BLUCK CONTAINS SOO RECORDS
RECORD CONTAINS TO CHARACTERS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IN-MECL.

OZ TILLER

IN-TAPZ LABEL RECORDS ARE STANDARD

IN-TAPZ LABEL CONTAINS SOON RECORDS

RECORDS RECORDS

RECORD CONTAINS LC CHARACTERS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PEND KEYLIST-INPLACCIND INTO IN-RECL
CLOSE IN-TAPL
COSE IN-TAPL
GO TO KEYLIEZ-SAVE.
                                                                                   RGENTI , 151.
SKRFF, STATE CLISTICION DIVISION.

PROGRAM-10. - KFPFEO.

AUTINIR. TOWN GIRGENTI. IS

FOUND HINNER TO DIVISION.

CONTRACTOR SECTION.

OR LICT COMPUTER. 184-370.

INPUT-OUTPUT SECTION.

FILE CONTRACTOR SECTION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02 KEYLIST-PECZ
02 KEYLIST-K
KEYLIST-0011
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02 KFYLIST
KFYLIST
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22 KFYL 151
KFYL 151-0U
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02 KFYL 1 ST
1N- CAP1 LA
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WRITE KEYLIST-RECT TO RECHANGE ON KEYLISTI-FILE = "

BISPLAY THAN ID MALLE ON KEYLISTI-FILE = "

BETTE ALL - TAP2 INTO KEYLISTI-FULIZ

READ ALTER INTO KEYLISTI-FULIZ

BETTE ALL - TAP2 INTO KEYLISTI-FULIZ

BETTE ALL - TAP3 INTO KEYLISTI-FULIZ

BETT AL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ETT UPON STSEST.
                                                                WRITE IN-RECT COND-VEYFILET.

KEYFILEZ-SAVE INFO INPR.

OPEN ONLY OF INFO IN-RECT READ-KEYFILET.

READ-KEYFILEZ-INPZ HEGORD INFO IN-RECZ KEYFILEZ AT FIND CLINSE KEYFIST-INPZ AT FIND CLINSE KEYFIST-INPZ CONSE IN-TAPZ
                                                                                                                                                                                                                                                                                                                                                 WRITE IN-REC2.
GO TO READ-KEYFILF?.
GO TO READ-KEYFILF?.
GOEN AND THE TAP!
GOEN AND THE TAP!
READ-TAPE!.
READ-TAPE!.
READ-TAPE!.
AT FND CLOSE KEYIS-DUT!
CLOSE IN-TAP!
CLOSE IN-TAP!
10/24/18
      18.02.11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WP 11 F KF YL 1ST-RE
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   KI YREO
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PIC 9(3).9.
PIC 9(3).9.
PIC 9(1).9.
PIC 9(7).9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRINT-FILE LABEL RECORDS ARE UNITED.

10. PRINT-RECORD.

10. PRINT-REC
                                                                                                                    -FILE LABEL RECORDS ARE STANDARD.
-FABOD.
- PROPERTY OF THE CORDS OF STANDARD.
- PROPERTY OF THE CORDS OF THE STANDARD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PIC 9(5):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BN-WU.
JBM-NU-CODE PIC X(5).
JBM-BUREAU-NUMBER PIC 9(6).
                                                        RECURDING MODE 1S F
BLOCK CONTAINS 500 RECURDS
RECORD CUNTAINS 16 CHARACTERS.
REC4.
11/11/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         P I C
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  22.04.49
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  PROG3C
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BELL RECORDS ARE STANDARD
CORDING MODE 15 F.
CORDING MODE 15 F.
CORDINAS 500 RECORDS
ECORO CONTAINS 16 CHARACTERS. PIC 9(5): x(2). xis: 201. is: PIC 9161. 11/11/18 JA-BUREAU-NUMBER PIC 04 JB-JCN-NUM-05 JB-JCN-SEQUENCE P 05 JB-JCN-SEGUENCE P 06 JB-JCN-SUFFIX 10.11 EK 10.10 Mulline PICC 10.10 Mulline PI 2 REST - 05 JB - JCN - SUFFI 03 JG - ILER 04 JG - ILER 05 JG - ILER 06 JG - ILER 07 JG - ILER 08 JG - ILER 08 JG - ILER 09 JG - ILER 00 JG - ILER -1 EVEL 1 -LEVEL2 -LEVFL2 ER-TIME I-LEVELI I-LEVELI I-LEVEL2 22.04.49 NC - RF CORD. 00 PROG 3C 9 10 -55 =

ANT | PIC 903 | R-DATEL REDEFINES SUB-BUFFER-DATEL.
R-DATEL-YR PIC 9(2).
R-DATEL-DAY PIC 9(3).
R-DATEL-DAY PIC 9(3). CHECK PPI-MEC-COUNT PIC 915) VALUE LENUMINETY

NUMBERY PPIC MICHETY

NUMBER PIC MICHETY

NUMBER PPIC MICHETY PC-RECORD.

02 PC-REC-KEY.

03 BUREAU-NUMBER-PC PIC 916).

03 JCN-PC. PIC 9161 PIC X1291 VALUE .0 U-NUMBER-NC 04 JCN-041E-04 JCN-5FQUE 04 JCN-5FQUE SMUC-01G174 PREV-SMUC-01G174 22.04.49 MAIRIX-IDX
CARD-COUNT
FT-SHFT-SHFT-SHFRR-IDX
SAVE-COUNT
FRR-IDX
NINDXINTEGER-YR
INTEGER-YR
INTEGER NC -REC-KE 03 DUREA 03 JCN-N NSHUC MFRUC NITURE COUNT PC-1151-F 20 PRIJE 3C = 5 10

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PIC X(3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REDEFINES INPUT-N PIC 916/199 
                                                                                                                                                               RUFER-OATEZ REDEFINES SUB-BUFFER-DATEZ.
03 BUFFER-DATEZ-DAY
18 BUFFER-DATEZ-DAY
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| NPUT-VALUE|
| NPUT-VALUE|
| CARD-REC2.
| JI-CARD-REC2.
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02 SWUC-TAB OCCURS 300 TIMES.
03 SWUC
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02 PHUC-TAB OCCURS 300 TIMES.
03 PHUC
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02 HAINT-CAB GCCURS 50 TIMES COMP-3-
03 HCOST PIC 9-
03 DHCOST PIC 9-
04 DHCOST PIC 9-
05 DHCOST PIC 9-
06 DHCOST PIC 9-
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11/11/18
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PIC 94
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FEN FILE REORGANIZATION. UPON CONSOLE.
HECK-POINT
FROM CONSOLE.
S = "N" NEXT SENIENCE ELSE
S = "N" PERFORM RESTART THRU RESTART-END
GO TO INCR-J.
                                                                                                                                                                                                                                                                                                                                                                                             DISP-MESS.

DISPLAY IS THIS A RESTART ' UPON CONSULE.

ACCEPT RESTART-ANS FROM CONSULE.

DISPLAY ENTER THE NUMBER OF RECORDS TO PROCESS.

DISPLAY BETWEEN FILE REORGANIZATION. UPON CONSULE.

ACCEPT NEXT-CHECK-POINT TO CIRR FROM CONSULE.

HOVE NEXT-CHECK-POINT TO CIRR FROM CONSULE.

IF RESTART THRU RESTART
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MOVE PRINTE PRINT-RECORD FROM DETAIL-LINE
AFFER POSTTONING 2 LINES.

MOVE AFFER POSTTONING 2 LINES.

MOVE AFFER POSTTONING 1 LINES.

MOVE SPACES TO DETAIL-LINE

MOVE SPACES TO
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AVERAGE MAINTENANCE COSIS. TO D-HDR.
PRINT-RECURD FROM DETAIL-LINE
AFFER POSITIONING 2 LINES.
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TALL-LINE.
       11/11/18
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MCOST-HEADER TOP-OF-PAGE.

MOVE SPACES IO PAGE.

MRITE PP. AVE. IO P.
                                                                                                                                                                                       GIVE O INEXL-ALINGASTES ILD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOVE FREE TO LINE-COUNT.
HOVE SPACES TO DETAIL-LINE.
MOVE HORE TO D-HOR.
WILL FREE BOART TOWNER OF
22.04.49
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N-JBW-KEYL-WUC.
= GEN-JBW-KEYL INVALID KEY GO TO INCK-J.
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ADD 1 TO J. REALER THAN NSWUC

IF J 1S GREATER THAN NSWUC

IF J 1S GREATER PRINT-RIN THRU PRINT-RIN-END

DISPLAY 1T S FINALLY OVER. THANK YOU.' UPON CONSOLE

GO TO FND-JOB.

IF CHECK-PI-REC-COUNT IS NOT LESS THAN NEXT-CHECK-POINT

IF CHECK-PI-REC-COUNT CANCEL AT THIS POINT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PERFORM CHECK-POINT
THRU CHECK-POINT-END
ERFORM REORG-FXIT
FOX TO CANCEL HAS REEN GIVEN,
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UC-DIGIT4 TO PREV-SHUC-DIGIT4
81/11/11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            START-PROCESS.

MOVE ZERO 10 J.
ZFRO-PNC-PC-TABLES.
ADD 1 TO J.
IF J IS GRÉATER THAN NSHUC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GO TO MCOST -PRINT.
   22.04.49
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DISPLAY "IF
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DISPLAY "IT
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HANDON
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   PROG3C
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16 TO RAWH (J).

INE TO RS (J).

INE TO RS (J).

ILZ NOT = SPACE AND JBM-MMH-LEVELZ TO RMMH (J).

FLZ IS GREATER FILAN 'O' AND LESS THAN '9'.

DEPOT (J).

ELZ = '9' ADD I TO RATTRIF (J).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOVE ZERO 10 1.

1 SAUC (J. 15 GREATER THAN PHUC (1) GO TO MOVE-1.

1 SAUC (J. 15 GREATER THAN PHUC (NPHUC) GO TO HOVE-1.

1 SAUC (J. 15 GREATER THAN PHUC (NPHUC) GO TO HOVE-1.

1 MOVE NPHUC TO INDX.

1 INDX. FROM HOX3.

1 INDX. FROM HOX3.

2 UB RACT INDX. FROM HOX3.

4 DD HOX3.

4 DD HOX3.

5 UNDX.

6 DI VIDE 2 INDX.

6 DI VIDE 3 INDX.

6 DI VIDE 4 INDX.

6 DI VIDE 5 INDX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CHECK-HMC-FOR-PACI.

IF JBW-HMC-LEVEL1 = 246 OR 086 OR 877

GO 10 TESI-FOR-A

GO 10 CHECK-FOR-CNC.

IF JBW-ATC-LEVEL2 NOT = 'A' AND JBW-ATC-LEVEL2 NOT = 'A'

IF JBW-ATC-LEVEL1 NOT = 'A' AND JBW-ATC-LEVEL2 NOT = 'A'
                                                                                                                       JUNIATECHECK-POINT TO CIRR
SPLAY "PRUCESSED RECORDS" REC-CNT UPON CONSOLE.
IN CHECK-PI-REC-COUNT.
SM-DUREAU-NUMBER TO RUNUKEY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CHECK-FOR-CNC.

CHECK-FOR-CNC.

HOVER JAN 10 JCNKEY.

HOVER JAN 11 GO TO TEST-ATC-LEVEL 2.

HOVER JAN 11 GO TO TEST-ANG-FOR-PCACT.

ADD 10 READ-JOW-FILE.

ADD 1 TO RACT [J]: A DUMIN 111.
READ-184-FILE AT END GO TO INCR-J. F. JAB-NU-CODE NOT = SHUC (J) GO TO INCR-J. ADD I TO REC-CNT. IF AEC-CNT. IF AEC-CNT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HOVE IMDX 10 INDX1

GO TO CONT-IIIS-BINARY-SEARCH.

1FSI-THISE-TWO-CODES.

(F SMUC (1) = PHUC (INDX1) HOVE INDX1 TO I.

IF SHUC (1) = PHUC (INDX3) HOVE INDX3 TO I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             F NPWUC = 0, GO TO READ-JBW-FILE.
F PC-SWT = 'Y' GO TO READ-JBW-FILE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOVE 1 TO IBUFFR (1).
MOVE ZERO TO 1.
PERFORM BUFFER-MOVE THRU BUFFER-END.
IMCP-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1ES1-
                                                                                                                                                                                                                                                     SF1-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CONT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -13S
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11/17/18

22.04.49

PP 06 3C

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READ-JAM-FILE -AGAIN.

NOVE PRUCK (1) 10 GEN-JBM-KEYZ-MUC.

NOVE PRUCK (1) 10 GEN-JBM-KEYZ-MUC.

NOVE PRUCK (1) 10 GEN-JBM-KEYZ-BUC.

NOVE DAUGH (1) 10 GEN-JBM-KEYZ-BUC.

READ-JBM-CAGIN.

READ-JBM-CAGIN.

IF JBM-WILCONE NOT # BUNOKEY GO TO INCR-I.

IF JBM-WILCONE NOT # BUNOKEY GO TO INCR-I.

IF JBM-AIC-LEVELI NOT # 8" GO TO INCR-I.

IF JBM-AIC-LEVELI NOT # 8" GO TO READ-JBM-AGAIN.

IF JBM-AIC-LEVELI NOT # 8" GO TO JBM-NC-LIST.

IF JBM-AIC-LEVELI SI GREATER HAN 'O'

IF JBM-AIC-LEVELI NOT # 8" GO TO JBM-ACAIN.

IF JBM-AIC-LIST THRU SEARCH NC-LIST.

JBM-GC-LIST.

GO TO JBM-ACAIN.

IF NC-SMT # Y' HOVE ZERD TO I)

IF NC-SMT # Y' HOVE ZERD TO I)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SET-1J-FOR-PHUC.

MOVE FERO TO 1J.

HOVE LESS THAN SWUC (L) GO TO INCR-COUNT.

IF PHUC (1) IS GREATER THAN SWUC (NSWUC) GO TO INCR-COUNT.

HOVE NSWUC TO INDXI.

CONT. BINARY-SEARCH.

SUBTRACT INDXI FROM INDX3 GIVING BIN-DIFF.

IF BIN-DOIFF I GO TO TEST TWO-CODES.

ADD INOX3 TO INDXZ GIVING INDXZ.

ADD INOX3 TO INDXZ INDXZ.

ADD INOX3 TO INDXZ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADD 1 TO COUNZ.

ADD 1 TO COUNZ.

ADD 1 TO COUNZ.

TE COUNZ IS GREATER THAN TCOUNT GO TO

TE COUNZ IS GREATER THAN TEST-MINIMUM-POS-VALUE.

TE COUNZ IS GREATER TO SUB-BUFFER-DATEL.

MOVE MIDTE (MIDTE-IDX) TO SUB-BUFFER-DATEL.

MOVE MIDTE FERDATES.

THE DATE-BIFF RIN THEN DATE-BIFFER-DATE.

TO ADD TO THE TO THE THAN Z GO TO TO COUNZ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADD 1 TO L. MUNZ TO KOUNTZ 1L).

HOVE SAVE-COUNZ TO KOUNTZ 1L).

HOVE DUGGET TO BULKAU-NOMBER-PC

HOVE TO SAVE-COUNZ) TO JCN-PC

HR ITE PC-RECORD INVALID KEY NEXT SENTENCE.

If I = TCOUNT GO TO SET-IZ.

HOVE Y TO JCNO-TAG (SAVE-COUNZ).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HOVE INDX? 10 INDX | CONT. CON
ATER THAN NPWUC GO TO SET-ICOUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      UNI.
ECOUNT TO TCOUNT.
FRACT I FROM TCOUNT GLYING HOD-TCOUNT.
ICOUNT = 1 AND IBUFFR (1) NOT = ZERO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADD 1 TO COUNT. (COUNT). PERFORM BUFFER-HOVE THRU BUFFER-END. GO 10 READ-JAW-AGAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HOVE 1 TO KOUNTZ ([])
GO TO LAST-CHRONO-SWUC.
I GO TO RETURN-JBW.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INDX 10 INDXI COLL COLL COLL COLL BINARY-SEARCH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         I NCR-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IEST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SFI-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TACR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INCR
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11/11/18

22.04.49

PRIIG 3C

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READ MATRIX-T THAIRIX-LOWER GO TO THE MATRIX-TO THE MATRIX-VAL THAIRIX-LOWER GO TO THE MOVE JOHN-DATE TO THE MOVE JOHN-DATE TO THE FRANCE OFFICE OFFI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TO JENU-10X
0-10X IS GREATER THAN ICOUNT GO TO END-FIX-TAG.
Nº TO JENO-1AG (JCNO-10X).
INTR-JENO-10X.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IEST-MINIMUM-POS-VALUE = 99999 GO TO FIX-UP-JCNO-TAG.

ADD 1 10 LL

AD
                                                                                                                                                                                                                                                                    IF JUDFER (COUNT) = ZERO GO TO TEST-JCNO-NUM-OIFF.
MOVE BUFFR (ECOUNT) TO MATRIX-NOHINAL-KEY.
MOVE JOUFFR (ECOUNT) TO MATRIX-15 M.
READ MATRIX-FILE INVALID KEY GO TO INCR-COUNT.

IF MATRIX-VAL (MATRIX-15x) NOT a INCR-COUNT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TEST-JCNO-NUM-DIFF. MILLOFE-TOXI TO SUB-BUFFER-DATEL.
MOVE JCNO-DATE (MILLOFE-TOXI TO SUB-BUFFER-DATEL.
MOVE JCNO-DATEL COUNZ) TO SUB-BUFFER-DATE.
PERFORM DATE-DIFF LESS THAN JERO GO TO TOX-COUNZ.
IF DATE-DIFF IS LESS THAN MINIM-POST VALUE
MOVE COUNZ.
MOVE COUNZ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SAVE COUNT TO KOUNT! (L) ERO
NUMER ISAVE-COUNT) NOT = ZERO
NOWNEY OF COUNTS NOT = ZERO
JCHO (SAVE-COUNT) TO JCH-PC
ITE PC-RECORD INVALLO KEY NEXT SENTENCE.
SAVE-COUNT TO PCOUNT
= NOD-ICOUNT OF TO PCOUNT
= SET-MINIMUM-POSITIVE-VALUE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GO TO INCR-COUNZ.

IEST-MINIMUM-POS-VALUE = 99999 GO TO SET-LZ.

MINE I FRO TO COUNZ.

MINE REM-COUNZ TO SAVE-COUNZ.

GO TO TNCR-L.
                                                                                                                                    11/11/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SET-MINIMUM-POSITIVE-VALUE.
MANE 99999 TO MINIMUM-POS-VALUE.
MOVE TO COUNT.
MOVE TO 10 JCNO-TAG (SAVE-COUNT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HOVE SAVE-CUS.

HOVE SAVE-CUS.

IF I = HOD-TCOUS.

GO 10 SFT-HINTHUM-PUS.

F JX-UP-JCNO-10X.

HOVE ZERO 10 JCNO-10X.

HOVE JCNO-10X.

TO JCNO-10X.

TO JCNO-10X.

TO JCNO-10X.

TO JCNO-10X.

TO JCNO-10X.
                                                                                                                                               22.04.49
-
I
                                                                                                                                          PRINGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INCR
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** 5153 15 442.41 2

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-MATRIX.
NE 13 10 MATRIX-10X.
HATRIX-VAL(MATRIX-10X) = ZFRO GO 10 REAO-JBW-UN-LOOP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADD 1 TO 13.

ADD 1 TO 13.

IF 13 GREATER THAN NPWUC CO TO LOOP-MOVE-TO-GEN.

IF 15 GREATER THAN NPWUC CO TO LOOP-MOVE-TO-GEN.

IF SWUCLL3) = PWUCLL ADD 1 TO 1

SWUCLL3) IS GREATER THAN PWUCLL) ADD 1 TO 1

FROM 13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RFAD-JBW-ON-100P.

RFAD-JBW-BALFLE AI END GO IN LOUD-ON-1J.

IF JBW-BUIREAU-NUMBER NOT " BUNDKEY GO IO LOOP-ON-1J.

IF JRW-MI-CNDE NUI = 80 OR C.

IF JRW-ATC-LEVELI = 80 OR C.

IF JBW-ATC-LEVELI = 80 OR C.

IF JBW-ATC-LEVELI = 80 OR C.

IF JBW-ATC-LEVELI = 80 OR C.

GO IO CHECK-P-MATRIX.

GO IO CHECK-P-MATRIX.

CHECK-P-MATRIX.
                                                                                                                                                                                                                                                                                            IF L IS GREATER THAN L2 GO TO LAST-CHROND-SWUC.
HOVE JUDIER (COUNT) TO K.
IF K = ZFRO GO TO INCR-L2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MTZTL2) TO 18UF-1DX.
R 118UF-1DX) = 0 GO TO RETURN-JBW.
RFR(18UF-1DX) TO MATRIX-NOM-KEY.
RIX-FILE INVALID KEY GO TO RETURN-JBW.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 I UOP-MOVE - TO-GEN.
MOVE SMIC (1 J) TO GEN-JBW-KEY2-WUC.
MOVE BUNDKEY TO GEN-JBW-KEY2-BN.
START JBW-FILE KEY = GEN-JBW-KEY2 INVALID KEV
                                   11/11/18
                                                                        END-FIX-TAG OF LIST THAN 2 GD TO SET-LO.
                                      22.04.49
I
                                      PROGRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100
                                                                                                                                                                                                                                                                                                                                                                                     INCR
                                                                                                                                                                                                                                                                                   SE 1-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   I ASI
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SEI-MILLONE JUNE JUNE JUNE JUNE SEI-MILLONE SEI-MILLONE JOHN HILLONE SEI-MILLONE JOHN HILLONE SEIN HILLONE JOHN HILLONE SEIN HILLONE JOHN HILLONE SEIN HILLONE SEIN HILLONE SEIN HILLONE SEIN HILLONE SEIN HILLONE SEIN HILL JOHN HILL SEIN 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 TO PCHMILLID.

1 = "R" ADD JBW-MMI-LEVEL2 TO PCMMI (1J)

MF TO PCS([J])
                                                                                                                                                                                                                                M-0N-LOOP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HOVE JUNKEY TO JBW-JCN.

HOVE BUNNKEY TO JBW-BUREAU-NUMBER.

HOVE BUNNKEY TO JBW-BUREAU-NUMBER.

HOVE SHOW [J] TO JBW-BUREAU-NUMBER.

HOVE SHOW [J] TO JBW-CONTON TO JBW-C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCSWILLII
FANT CO TO ADD-TO-PC-LIST.
GREATER THAN OF AND LESS HAN
                                                                                                                                                                                                                                                                                                                                                                 C-LEVELL NOT = "R" GO TO ADO-10-PC-L
TO PCOPOT [1]
C-LEVEL2 = "9" ADO T TO PCATRI (1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               40VE BUNDKEY TO BURFAU-NUMBER-PC.
40VE JRW-JCN TO JCN-PC.
HRITE PC-RECORD INVALIO KEY GO TO RETURN-JBW.
                                                                                                                                                                          GREATER TIMN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 10 NCACT (J) 1 10 NCHHH (DO JBH-NORRU-THE TO NCHU (DO JBH-NORRU-THE TO NCS (J) 10 DO JBH-ANN-THE TO NCAN (J) 10 NCHHH (J) NC (J) 10 NCHHH (J) NCHH (J) NCHHH (J) NCHH (J) NCH (J) 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IF JBW-ATC-LEVEL = .9. AI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GO TO TEST-NPWIC.
      22.04.49
                                                                                                                                                                          JBW-JCN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $$$$$£
PROG3C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TEST-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             400
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                                                                                                                                                                   A-116
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HOVE ZERO TO 13.

IF JB-WU-CODE IS CREATER THAN SWUC (INSWUC) GO TO READ-JB.

IF JB-WU-CODE IS GREATER THAN SWUC (NSWUC) GO TO READ-JB.

HOVE NSWUC TO INDX3.

1-15-BINARY-SEARCH.

5-JB-BINARY-SEARCH.

1-16-BINARY-SEARCH.

1-16-BINARY-SEARCH.

5-JB-TWU-CODES.

ADD INDX3 INDX1 GIVING INDX2.

ADD INDX3 INDX2.

OIVIDE Z [MIG MOXZ.

OIVIDE Z [MIG M
                                                                                                                                                                                                                                                                                                                                   HOVE TERD TO I.

IF SAUK 1.1 IS LESS HIAN PHUC (1.) GO TO RETURN-JBW.

IF SAUK (1.) IS GREATER THAN PHUC (NPWUC) GO TO RETURN-JBW.

HOVE I TO NDRI.

HOVE I TO NDRI.

HOVE I TO NDRI.

SURRACT INDRI. FROM INDRI.

SUBRACT INDRI. FROM INDRI. OF TEST-PHUC-TWO-CODES.

ADD TO NORS.

ADD TO NORS.

ADD TO NORS.

ADD TO TEST-PHUC (INDRI. INDRI. OF TEST-PHUC. INDRI. IS I FESS. THAN GO TO CONT. PHUC. BINARY-SEARCH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CO TO RETURN-JBW.
-BUNDKEY.
-BUNDKEY.
-NUNDKEY TO JB-BUREAU-NUMBER.
HOVE BUNDKEY TO JB-JCM.
START JB-FILE KEY = JB-KEY INVALID KEY GO TO RETURN-JBW.
READ JB-FILE AT END GO TO RETURN-JBW.
HOVE THOSE TO INDXT.
GO TO CONT-PUC-BINÁRY-SEARCH.
GO TO CONT-PUC-BINÁRY-SEARCH.
FPHUC-IMD-CDDES.
IF SHUC (J) = PWUC (INDXT) HOVE THOXE TO I
GO TO HOVE-BUNGKEY.
If SWUC (J) = PWUC (INDX3) HOVE TO I
GO TO HOVE-BUNGKEY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HOVE INDX TO INDXI.

CO 10 CON1-18-BINARY-SEARCH.

-15-TWD-CODE - SHUC (INDXI) HOVE INDXI ID 1J.

If 16-HU-CODE - SHUC (INDXI) HOVE INDXI ID 1J.

IF 15-HU-CODE - SHUC (INDXI) HOVE INDXI ID 1J.

HOVE I O NAIRIX-MOH-KFY.
                                                                                                                                                                                                                                                                                                               ZERO GO TO RETURN-JBM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MINE-
                                                                                                                                                                                                                                                                             1651-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    READ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IFSI
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11/11/18

55.04.49

PRINGE

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ERR-RIN.
WRITE PRINT-RFCORD FROM CRR-MSG TERR-IDX) AFTER POSITIONING 2 LINFS.
                                                         ER THAN . O' AND LESS THAN 191.
                                                                                                                                                            1G11-WUC
UC (1) TO PREV-401G11-WUC
                                                                                                                                                                     UNDED.

(K) GIVING RECOST (1):

(K) GIVING PCICST (1):

(N) FOI OF CONTROL (1):

(K) GIVING PCHCST (1):

(K) GIVING NCICST (1):

(K) GIVING NCICST (1):
                                                                                                                                                                                                                 UNDED.

(K) GIVING PNCHCST

(K) GIVING PROBELL

(K) GIVING PCOEPLC
                                                                                                                                                IN J. S. CAFATER THAN MSWUC GO TO COST-RIN-END. WUC (J.) TO WUC-401611.
                                                                       10 1 10 PNCATT (13).
            NVALID KEY GO TO READ-JB.
                             VALID KEY NEXT SENTENCE.
                                                                                                                                                                                                                                333333333333333333
11/11/18
                                                                                                                          COST-RIM.
HOVE LERO TO J.
HOVE SWUC (1) TO PREV-4DIGIT-WUC
22.04.49
                                                                                    FND-JDB.
CLOSE JBH-FILE
JB-FILE
PRINI-FILE
MATPIX-FILI
                                                                                                                                                                                                                                                                                                                                                FRR-RIN-END.
PR (16.3C
                                                                                                                                             INCH-
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M (COUNT).
D JBW-MMH-LEVEL2 TO BUFMMH (CUUNT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SFARCH-NC-JB.

MOVE 'N' TO NC-SMT.

MOVE 'N' TO NC-NUMBER TO NC-NUM-BN.

MOVE JB-JCN TO NC-NUMBER TO NC-NUM-BN.

MOVE JB-JCN TO NC-NUMBER TO NC-NUM-BN.

MOVE JB-JCN TO NC-SMI.

SEARCH-NC-JB-END.

SEARCH-NC-JB-END.

DATE-BIFF-R-DATE TO NC-NUM-BN-FER-DATE SUBTRACT SUB-BNFFER-DATE TO NOT GREATER FILM BNFFER-DATE TO NOT GREATER GIVING STATE-BIFF.

IF YR-DIFF IS NOT GREATER GIVING RADIEFER DATE TO NOT GREATER GIVING RADIEFER TO NOT GREATER GIVING INTEGER-YR.

IF YR-DIFF IS NOT GREATER GIVING INTEGER-YR.

GIVING INTEGER-YR.

GIVING INTEGER-YR.

SUBTRACT 634 FROM DATE-DIFF.

ELSF SUBTRACT 635 FROM DATE-DIFF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HAGER TO PC-NOM-BN.
-NOM-JCN.
-NOM-JCN.
INVALID KFY GO TO SEARCH-PC-JB-END.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HEADING-1-REPAIR RECORD FROM HEADING-1 AFTER POSITIONING WRITE PRINT RECORD FROM HEADING-5 AFTER POSITIONING WRITE PRINT-RECORD FROM HEADING-6 AFTER POSITIONING
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATER THAN .O. AND LESS THAN UNIT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEARCH-NC-11ST.

AND MOVE ON TO NC-NOM-BN.

HOVE JBM-JCN TO NC-NOM-BN.

HOVE JBM-JCN TO NC-NOM-JCN.

READ NC-11ST-FILE INVALID KEY GO TO SEARCH-NC-END.

SFARCH-NC-END.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .
10 рс.- Sul
10 рс.- Sul
10 рс.- Nobel 10 рс.- Nobel
11 рс.- Sul
10 рс.- Sul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOVE I TO ATTRUF (COUNT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PPINI-RIN.
PERFORM ZERO-TOTAL-TANE THRU ZERO-END.
90VF TERO TO J.
                                                                                                                                                                                                                                                                                                                                   E (COUNT).
11/11/18
22.04.49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEARCH-PC-JR-
MOVE AN-DIT
MOVE AN-DIT
MOVE AN-DIT
MOVE AN-DIT
MOVE AN-DIT
SEARCH PC-LICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SFARCH-PC-LIST.
MOVE JNN-PD
MOVE JNN-PD
MOVE JNN-PD
MOVE JNN-PD
MOVE JNN-PD
SFARCH-PC-FND.
                                                                                                             - XELEK - CHORDE - XELEK - CHORDE - CHO
PRIJG3C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BUC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              :
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NI-RECORD FROM HEADING-7 AFTER POSITIONING I LINES.
                                                                                                                                                                                                                                                                                                                                           AND KMU (J) 10 101-NURMU.

AND RS (J) 10 0 NO.85

AND RAWM (J) 10 0 NO.80

AND RAWM (J) 10 0 NO.80

AND RCOST (J) 10 0 NO.80

AND RCOST (J) 10 0 NO.80

AND RCOST (J) 10 10 NO.80

AND REPREST (J) 10 NO.80

AND R
                                                                                    GÄFATFR THAN NSWUC PERFURN PRINT-TOTALS THRU
TOTALS-END
PERFORM ZERO-TOTAL-TABLE THRU
ZERO-END
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOD 2 TO LINE-COUNT.

C. LINE-COUNT IS GREATER THAN 56 PERFORM HEADING-1-RIN.

D. TO PRINIT-INCR-1.

NG-2-RIN.

RI TE PRINIT-RECORD FROM HEADING-2 AFTER POSITIONING OLD

RITE PRINIT-RECORD FROM HEADING-5 AFTER POSITIONING 2 L

RITE PRINIT-RECORD FROM HEADING-6 AFTER POSITIONING 1 L

RITE PRINIT-RECORD FROM HEADING-7 AFTER POSITIONING 1 L

RITE PRINIT-RECORD FROM HEADING-7 AFTER POSITIONING 1 L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GREATER THAN NSWUC PERFORM PRINT-TOTALS THRU
TOTALS-END
PERFORM LERG-TOTAL-TABLE THRU
ZERO-END
                                                                                                                                                                       401NG-2-RIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ROUNDED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IIE AD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIN
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11/11/18

22.04.49

PRING 3C

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HUVE SAUC (4) TO D-MUC;

AND MCACT (1) TO DIACT.

AND MCACT (1) TO DIACT.

AND MCHILL (1) TO DIACT.

AND MCHILL (1) TO DIACT.

AND MCHILL (1) TO DIACT.

HULL (1) TO TO MCHILL (1) TO DIACT.

AND MCHILL (1) TO DIACT.

AND MCACH (1) TO DIACT.

AND M
                                                                                                                                                                                 NEWS
SASS
 ADD PCATRICST (1) TO D-DDISC.
ARD PCATRICST (1) TO 101-DDISC.
WRITE PRINT-RECORD FROM DETAIL-LINE AFTER PUSITIONING
IF LINE-COUNT IS GREATER THAN 56 PERFORM HEADING-2-RIN.
GO 10 PRINTZ-INCR-J.
                                                                                                                                                                                                                                                                                       J IS GRÉATER THAN NSWUC PERFORM PRINT-TOTALS-THRU
101445-END
PERFORM ZERO-TOTAL-TABLE TINU
GO TO HEADING-4-RIN.
7E SWUC (J) TO D-WUC.
                                                                                                                                                                         RINI-RECORD FROM HEADING-3 AFTER POSITIONING RINI-RECORD FROM HEADING-5 AFTER POSITIONING RINI-RECORD FROM HEADING-6 AFTER POSITIONING TO LINE-COUNT.
11/11/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAWM (J) ROUNDED.
22.04.49
PROG 3C
                                                                                                                                                                                                                                                                  PRIN
 2
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IF LINE-COUNT IS GREATER THAN SO PERFORM HEADING-4-RIN. OF DRINING-1-RIN-FINE-BOOK STATES THAN SO PERFORM HEADING-4-RIN. OF PRINI4-INCR-J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DIRANS.
DISCENIL-LINE AFTER POSITIONING
OM DETAIL-LINE AFTER 2 LINES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZERO-TOTAL-TABLE.
MOVE ZERO TO TOT-ACT, TOT-MMI, TOT-NORMU, TOT-NORS, TOVE ZERO TO TOT-AUM, TOT-LABOR, TOT-HAT, TOT-DEABOR, TOT-DEISC.
11/11/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HOVE ZERO TO JOIAL-TABLE.
TOTALS-END.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESTART-FILE.
 22.04.49
                                                                                                                                                                                                                                                                                                                             ADDO PROCESSION OF PROCESSION 
                                                                                                                                                                                                                                                                                                                          CHECK-POT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PROG3C
                                                                                                                                                                                                                                                                                     PRINT
     2
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ILE AT RESTART FILE" UPON CONSULE D'END.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRESTART-FILE AT END
OISPLAY 'BAD END OF FILE AT RESTART FILE' UPON CONSOLE
CO TO RESTART-READ-END.
PROT I FROM J.
                                         RESIDENT SENTENCE.
                                                                                                                    ÄVE-J TO PCACI-O.
RESTARI-RECORD INVALID KEY NEXT SENTENCE.
RESTARI-FILF.
I-FND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         READ KEYLIST-INPL AT END CLOSE KEYLIST-INPL IN-TAPI
GD TO RECREALE-KEYL.
WPITE IN-RECT FROM KEYLIST-RECT.
GO TO READ-KEYFILEL.
OPEN INPUT IN-TAPI.
OPEN INPUT IN-TAPI.
READ-TAPEL INTO KEYLIST-OUTL
READ-TAPEL INTO KEYLIST-OUTL
                                                                  IN J. S. GREALER THAN NSWUC GU TO CHECK-PI-J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                S GREATER THAN NSWUC GO TO RESTART-J.
RESTART-INCR-J.
11/1/18
                                                                                                                                   CHECK-POINT-RECORD INVA
CHECK-POINT-RND.
KESIARI
OPEN INPUT RESTARI-FILE.
RESTARI-INCELIONAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -0 10 RS (J).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HOVE PCATTO RESING
SUBTRACT FROM J.
SUBTRACT FROM J.
CLOSE RESTART-FILE.
RESTART-END.
22.04.49
 PRIIG 3C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RFSI
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** IN* \$3 IN U.S.A. 2

MAITE KEYLISI-REC3 INVALID KEYFILEZ-SAVE.

GO TO READ INVALID WAITE ON KEYLISII-FILE = "

KEYPILEZ-SAVE

OPEN INPUT KEYLIST-INP2 OUTPUT IN-TAPI.

READ-KEYFILEZ-SAVE

OPEN INPUT KEYLIST-INP2 OUTPUT IN-TAPI.

READ-KEYFILEZ-SAVE

ON RECAFILEZ-SAVE

OPEN INPUT KEYLIST-INP2 IN-TAPI

OPEN INPUT KEYLIST-INP2 IN-TAPI

OPEN INPUT KEYLIST-OUTZ

READ-TAPIZ

READ-TAPIZ

OPEN INPUT KEYLIST-KEYY

AT END CLISE KEYLIST-KEYY

OS TO READ-FEYT

GO TO READ-FEYT

GO TO READ-FEYT

GO TO READ-TAPIZ

ON ROUTPUT KEYLIST-KEYY

READ IN-TAPIZ

OS TO READ-TAPIZ

READ IN-TAPIZ

OS TO READ-TAPIZ

OS TO READ-TAPI

-

Total Control

11/11/18

22.04.49

PH063C

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